



March 24, 2006

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL

SITE: FORMER CIRCLE K STORE 01106  
1693 CENTRAL AVENUE  
MCKINLEYVILLE, CALIFORNIA  
LOP # 12698

RE: QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2006

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for Former Circle K Store 01106, located at 1693 Central Avenue, McKinleyville, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Anju Farfan". It is written in a cursive style with a long horizontal stroke on the left and a vertical stroke on the right.

Anju Farfan  
QMS Operations Manager

CC: Thomas Potter, SECOR International, Inc. (2 copies)

Enclosures

20-0400/01106R10.QMS





**QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2006**

**FORMER CIRCLE K STORE 01106  
1693 Central Avenue  
McKinleyville, California  
LOP # 12698**

**Prepared For:**

**Mr. Thomas H. Kosel  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818**

**By:**

A handwritten signature of "Dennis E. Jensen" is written over a circular official seal. The seal contains the text "CERTIFIED ENGINEERING GEOLOGIST", "DENNIS E. JENSEN", "No. EG 1034", "Exp. 4/07", and "STATE OF CALIFORNIA".

**Senior Project Geologist, Irvine Operations  
March 23, 2006**



### LIST OF ATTACHMENTS

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<b>Graphs</b>	Groundwater Elevations vs. Time Benzene Concentrations vs. Time MTBE Concentrations vs. Time
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<b>Statements</b>	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**January 2006 through March 2006**  
**Former Circle K Store 01106**  
**1693 Central Avenue**  
**McKinleyville, CA**

Project Coordinator: **Thomas H. Kosei**  
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**  
Compiled by: **Alma Montaño**

Date(s) of Gauging/Sampling Event: **01/31/06**

**Sample Points**

Groundwater wells: **5** onsite, **4** offsite      Wells gauged: **8**      Wells sampled: **8**  
Purging method: **Diaphragm pump**  
Purge water disposal: **Onyx/Rodeo Unit 100**  
Other Sample Points: **0**      Type: **n/a**

**Liquid Phase Hydrocarbons (LPH)**

Wells with LPH: **0**      Maximum thickness (feet): **n/a**  
LPH removal frequency: **n/a**      Method: **n/a**  
Treatment or disposal of water/LPH: **n/a**

**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **4.98 feet**      Maximum: **7.06 feet**  
Average groundwater elevation (relative to available local datum): **144.46 feet**  
Average change in groundwater elevation since previous event: **5.28 feet**

Interpreted groundwater gradient and flow direction:

Current event: **0.01 ft/ft, northwest**

Previous event: **0.02 ft/ft, northwest (11/02/05)**

**Selected Laboratory Results**

Wells with detected **Benzene**: **0**      Wells above MCL (1.0 µg/l): **n/a**  
Maximum reported benzene concentration: **n/a**

Wells with **TPH-G**      **0**  
Wells with **MTBE**      **2**      Maximum: **6.2 µg/l (MW-8)**

**Notes:**

MW-6=Covered with asphalt,

## TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

--	= not analyzed, measured, or collected
LPH	= liquid-phase hydrocarbons
Trace	= less than 0.01 foot of LPH in well
$\mu\text{g/l}$	= micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	= milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	= not detected at or above laboratory detection limit
TOC	= top of casing (surveyed reference elevation)

### ANALYTES

BTEX	= benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	= di-isopropyl ether
ETBE	= ethyl tertiary butyl ether
MTBE	= methyl tertiary butyl ether
PCB	= polychlorinated biphenyls
PCE	= tetrachloroethene
TBA	= tertiary butyl alcohol
TCA	= trichloroethane
TCE	= trichloroethene
TPH-G	= total petroleum hydrocarbons with gasoline distinction
TPH-D	= total petroleum hydrocarbons with diesel distinction
TPPH	= total purgeable petroleum hydrocarbons
TRPH	= total recoverable petroleum hydrocarbons
TAME	= tertiary amyl methyl ether
1,1-DCA	= 1,1-dichloroethane
1,2-DCA	= 1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	= 1,1-dichloroethene
1,2-DCE	= 1,2-dichloroethene (cis- and trans-)

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (D<sub>p</sub> x LPH Thickness), where D<sub>p</sub> is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.

### REFERENCE

TRC began groundwater monitoring and sampling for Circle K Store 01106 in October 2003. Historical data compiled prior to that time was provided by Gettler-Ryan, Inc.

## Contents of Tables

### Site: Former Circle K Store 01106

#### Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
Table 1a	Well/ Date	Methane	Iron Ferrous	Manganese (dissolved)	Nitrate	Sulfate	Alkalinity (total)	Carbon Dioxide (Lab)	Oxygen Demand (biologic)	Oxygen Demand (chemical)	Pre-purge Dissolved Oxygen			

#### Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments	
Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol	Methane	Iron Ferrous	Iron (total) (dissolved)	Manganese Carbonate	Hydroxide	Nitrate
Table 2b	Well/ Date	Sulfate	Sulfide	Alkalinity (bicarb.)	Alkalinity (carbonate)	Alkalinity (hydroxide)	Alkalinity (total)	Carbon Dioxide (Lab)	Oxygen Demand (biologic)	Oxygen Demand (chemical)	Pre-purge Dissolved Oxygen				

**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**January 31, 2006**

**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (8015M)	TPH-G (8260)	TPPH (8260)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
		(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )								
<b>MW-1</b>	01/31/06	149.55	4.98	0.00	144.57	5.71	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50
<b>MW-2</b>	01/31/06	150.14	6.01	0.00	144.13	5.05	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	0.53
<b>MW-3</b>	01/31/06	150.54	5.04	0.00	145.50	4.65	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50
<b>MW-4</b>	01/31/06	150.66	5.13	0.00	145.53	3.91	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50
<b>MW-5</b>	01/31/06	150.16	5.93	0.00	144.23	5.17	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50
<b>MW-6</b>	01/31/06	150.45	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
<b>MW-7</b>	01/31/06	149.62	5.23	0.00	144.39	5.56	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50
<b>MW-8</b>	01/31/06	150.49	7.06	0.00	143.43	6.44	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	6.2
<b>MW-9</b>	01/31/06	149.97	6.09	0.00	143.88	5.75	ND<50	--	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50

**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

	Date Sampled	Methane	Iron	Ferrous	Manganese (dissolved)	Nitrate	Sulfate	Alkalinity (total)	Carbon Dioxide (Lab)	Oxygen Demand (biologic)	Oxygen Demand (chemical)	Pre-purge Dissolved Oxygen
		(mg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg O)	(mg/l)	(mg/l)
<b>MW-1</b>	01/31/06	ND<0.0010	ND<100	ND<10	8.6	11	39	19	ND<1.5	28	1.09	
<b>MW-2</b>	01/31/06	ND<0.0010	ND<100	23	4.9	15	39	16	ND<1.5	28	1.01	
<b>MW-3</b>	01/31/06	ND<0.0010	ND<100	29	15	22	19	65	ND<1.5	25	1.78	
<b>MW-4</b>	01/31/06	ND<0.0010	ND<100	18	5.4	35	64	ND<1.5	25	1.09		
<b>MW-5</b>	01/31/06	ND<0.0010	ND<100	ND<10	3.7	12	27	17	ND<1.5	55	1.13	
<b>MW-7</b>	01/31/06	ND<0.0010	1300	190	0.55	60	51	80	ND<1.5	25	1.01	
<b>MW-8</b>	01/31/06	ND<0.0010	ND<100	ND<10	1.2	17	69	52	ND<1.5	25	1.26	
<b>MW-9</b>	01/31/06	ND<0.0010	ND<100	10	3.9	25	68	54	ND<1.5	25	0.91	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )								
MW-1														
02/16/00	149.55	4.68	0.00	144.87	--	ND	ND	ND	ND	ND	ND	290	190	
06/29/00	149.55	7.22	0.00	142.33	-2.54	ND	ND	6.4	ND	ND	ND	150	220	
09/18/00	149.55	9.60	0.00	139.95	-2.38	ND	ND	ND	ND	ND	ND	120	96	
12/14/00	149.55	9.22	0.00	140.33	0.38	ND	ND	3	ND	ND	ND	72	66	
03/07/01	149.55	6.61	0.00	142.94	2.61	ND	ND	ND	ND	ND	ND	82.4	67	
06/05/01	149.55	9.18	0.00	140.37	-2.57	ND	ND	ND	ND	ND	ND	7.6	3.3	
09/11/01	149.55	12.18	0.00	137.37	-3.00	ND<50	--	ND<50	ND<50	ND<50	ND<50	46	69	
12/11/01	149.55	6.44	0.00	143.11	5.74	ND<50	--	ND<50	ND<50	ND<50	ND<50	41	48	
03/12/02	149.55	4.45	0.00	145.10	1.99	ND<50	--	ND<50	ND<50	ND<50	ND<50	4.3	5.1	
06/17/02	149.55	7.48	0.00	142.07	-3.03	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<2.5	ND<2.0	
09/10/02	149.55	10.98	0.00	138.57	-3.50	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<2.5	1.6	
12/10/02	149.55	12.78	0.00	136.77	-1.80	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<2.0	ND<2.0	
03/11/03	149.55	4.76	0.00	144.79	8.02	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<2.0	ND<2.0	
06/10/03	149.55	5.77	0.00	143.78	-1.01	ND<50	--	0.55	0.58	ND<50	ND<50	6.4	ND<2.0	
09/10/03	149.55	9.53	0.00	140.02	-3.76	--	ND<50	ND<50	ND<50	ND<50	ND<1.0	--	ND<2.0	
12/09/03	149.55	7.37	0.00	142.18	2.16	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<5.0	ND<2.0	
03/17/04	149.55	4.60	0.00	144.95	2.77	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<5.0	4.9	
06/02/04	149.55	5.74	0.00	143.81	-1.14	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<5.0	2.0	
08/03/04	149.55	8.16	0.00	141.39	-2.42	ND<50	--	ND<3	0.54	0.47	1.6	1.3	ND<0.5	
11/09/04	149.55	8.48	0.00	141.07	-0.32	ND<50	--	ND<50	ND<50	ND<50	ND<50	--	ND<0.50	
02/01/05	149.55	6.10	0.00	143.45	2.38	ND<50	--	ND<50	ND<50	ND<50	ND<50	--	ND<0.50	
05/04/05	149.55	6.29	0.00	143.26	-0.19	ND<50	--	ND<50	ND<50	ND<50	ND<50	--	ND<0.50	
08/02/05	149.55	8.27	0.00	141.28	-1.98	ND<50	--	ND<50	ND<50	ND<50	ND<50	--	ND<0.50	

**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
11/02/05	149.55	10.69	0.00	138.86	-2.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
01/31/06	149.55	4.98	0.00	144.57	5.71	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	--	ND<0.50	
<b>MW-1 continued</b>														
02/16/00	150.14	5.32	0.00	144.82	--	6000	--	1500	32	98	2500	22000	19000	
06/29/00	150.14	8.63	0.00	141.51	-3.31	3100	--	1200	350	26	760	3900	5200	
09/18/00	150.14	10.66	0.00	139.48	-2.03	900	--	460	2.6	ND	14	4000	3100	
12/14/00	150.14	11.25	0.00	138.89	-0.59	730	--	270	ND	ND	ND	3400	3500	
03/07/01	150.14	7.44	0.00	142.70	3.81	6040	--	637	116	87.2	439	7610	8700	
06/05/01	150.14	10.04	0.00	140.10	-2.60	2700	--	140	74	ND	37	8700	7500	
09/11/01	150.14	13.52	0.00	136.62	-3.48	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1900	2400	
12/11/01	150.14	6.50	0.00	143.64	7.02	640	--	310	18	15	35	6800	4900	
03/12/02	150.14	3.13	0.00	147.01	3.37	240	--	48	1.1	ND<0.50	6.2	480	560	
06/17/02	150.14	8.62	0.00	141.52	-5.49	970	--	390	140	5.8	180	1800	2400	
09/10/02	150.14	12.45	0.00	137.69	-3.83	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	2000	
12/10/02	150.14	13.93	0.00	136.21	-1.48	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	19	21	
03/11/03	150.14	3.84	0.00	146.30	10.09	ND<50	--	3.2	0.85	ND<0.50	2.7	19	6.5	
06/10/03	150.14	5.95	0.00	144.19	-2.11	1200	--	310	84	25	180	1100	500	
09/10/03	150.14	9.92	0.00	140.22	-3.97	--	1300	260	17	18	34	--	1900	
12/10/03	150.14	7.38	0.00	142.76	2.54	2000	--	110	ND<13	ND<13	ND<13	1200	1700	
03/17/04	150.14	3.28	0.00	146.86	4.10	120	--	6.5	ND<0.50	ND<0.50	ND<0.50	150	150	
06/02/04	150.14	6.36	0.00	143.78	-3.08	430	--	20	7.9	ND<2.5	10	370	380	
08/03/04	150.14	8.83	0.00	141.31	-2.47	160	--	0.34	0.50	ND<0.3	0.66	160	210	
11/09/04	150.14	9.85	0.00	140.29	-1.02	86	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	130	
02/01/05	150.14	4.30	0.00	145.84	5.55	990	--	180	58	17	70	--	200	

**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water (feet)	IPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (8260)	TPPH (8260)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (8240B)	Comments
05/04/05	150.14	5.80	0.00	144.34	-1.50	110	—	27	6.5	0.65	7.7	—	26
08/02/05	150.14	7.94	0.00	142.20	-2.14	6000	—	1200	840	160	780	—	1200
11/02/05	150.14	11.06	0.00	139.08	-3.12	920	—	8.3	ND<2.5	ND<2.5	ND<2.5	—	660
01/31/06	150.14	6.01	0.00	144.13	5.05	ND<50	—	ND<0.30	ND<0.30	ND<0.30	ND<0.60	—	0.53
<b>MW-2 continued</b>													
02/16/00	150.54	4.83	0.00	145.71	—	ND	—	ND	ND	ND	ND	ND	5.2
06/29/00	150.54	7.83	0.00	142.71	-3.00	ND	—	ND	ND	ND	ND	ND	7.1
09/18/00	150.54	10.73	0.00	139.81	-2.90	ND	—	ND	ND	ND	ND	ND	37
12/14/00	150.54	10.30	0.00	140.24	0.43	ND	—	5	ND	ND	ND	ND	78
03/07/01	150.54	6.55	0.00	143.99	3.75	ND	—	ND	ND	ND	ND	ND	14.7
06/05/01	150.54	9.38	0.00	141.16	-2.83	ND	—	ND	ND	ND	ND	ND	15
09/11/01	150.54	13.08	0.00	137.46	-3.70	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	33
12/11/01	150.54	4.66	0.00	145.88	8.42	ND<50	—	0.67	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110
03/12/02	150.54	2.39	0.00	148.15	2.27	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	18
06/17/02	150.54	7.61	0.00	142.93	-5.22	ND<50	—	0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32
09/10/02	150.54	11.90	0.00	138.64	-4.29	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	70
12/10/02	150.54	12.74	0.00	137.80	-0.84	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.5
03/11/03	150.54	3.74	0.00	146.80	9.00	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0
06/10/03	150.54	5.35	0.00	145.19	-1.61	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0
09/10/03	150.54	9.67	0.00	140.87	-4.32	—	ND<50	ND<0.50	ND<0.50	ND<1.0	—	—	13
12/09/03	150.54	6.91	0.00	143.63	2.76	64	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	62
03/17/04	150.54	3.00	0.00	147.54	3.91	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0
06/02/04	150.54	5.72	0.00	144.82	-2.72	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.7
08/03/04	150.54	3.19	0.00	147.35	2.53	81	—	ND<0.3	ND<0.3	0.37	0.83	0.83	13

**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
<b>MW-3 continued</b>														
11/09/04	150.54	8.22	0.00	142.32	-5.03	52	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	41
02/01/05	150.54	6.27	0.00	144.27	1.95	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
05/04/05	150.54	4.02	0.00	146.52	2.25	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
08/02/05	150.54	6.92	0.00	143.62	-2.90	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
11/02/05	150.54	9.69	0.00	140.85	-2.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	9.7
01/31/06	150.54	5.04	0.00	145.50	4.65	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50
<b>MW-4</b>														
02/16/00	150.66	4.24	0.00	146.42	--	ND	--	ND	ND	ND	ND	ND	ND	8.7
06/29/00	150.66	7.15	0.00	143.51	-2.91	ND	--	ND	ND	ND	ND	ND	ND	7
09/18/00	150.66	9.90	0.00	140.76	-2.75	ND	--	ND	ND	ND	ND	ND	ND	18
12/14/00	150.66	9.09	0.00	141.57	0.81	ND	--	ND	ND	ND	ND	ND	ND	9.6
03/07/01	150.66	6.45	0.00	144.21	2.64	ND	--	ND	ND	ND	ND	ND	ND	9.0
06/05/01	150.66	9.09	0.00	141.57	-2.64	ND	--	ND	ND	ND	ND	ND	ND	ND
09/11/01	150.66	12.05	0.00	138.61	-2.96	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	18	26	
12/11/01	150.66	5.73	0.00	144.93	6.32	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.8	5.3	
03/12/02	150.66	3.96	0.00	146.70	1.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.8	12	
06/17/02	150.66	7.51	0.00	143.15	-3.55	--	--	--	--	--	--	--	--	
09/10/02	150.66	11.08	0.00	139.58	-3.57	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.3	6.2	
12/10/02	150.66	12.01	0.00	138.65	-0.93	--	--	--	--	--	--	--	--	
03/11/03	150.66	4.59	0.00	146.07	7.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
06/10/03	150.66	--	--	--	--	--	--	--	--	--	--	--	--	
09/10/03	150.66	9.56	0.00	141.10	--	--	--	ND<50	ND<0.50	ND<0.50	ND<1.0	--	--	ND<2.0
12/09/03	150.66	7.40	0.00	143.26	2.16	--	--	--	--	--	--	--	--	
03/17/04	150.66	3.82	0.00	146.84	3.58	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	ND<2.0	

Sampled semi-annually

Monitored Only

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
<b>MW-4 continued</b>														
06/02/04	150.66	5.97	0.00	144.69	-2.15	—	—	ND<0.3	ND<0.3	ND<0.6	ND<1	ND<0.5	—	Monitored Only
08/03/04	150.66	8.56	0.00	142.10	-2.59	ND<50	—	—	—	—	—	—	—	Sampled semi-annually
11/09/04	150.66	8.14	0.00	142.52	0.42	—	—	—	—	—	—	—	—	—
02/01/05	150.66	5.05	0.00	145.61	3.09	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	Sampled semi-annually
05/04/05	150.66	4.75	0.00	145.91	0.30	—	—	—	—	—	—	—	—	Sampled semi-annually
08/02/05	150.66	7.05	0.00	143.61	-2.30	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	Sampled semi-annually
11/02/05	150.66	9.04	0.00	141.62	-1.99	—	—	—	—	—	—	—	—	—
01/31/06	150.66	5.13	0.00	145.53	3.91	ND<50	—	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<0.60	ND<0.60	ND<0.50
<b>MW-5</b>														
12/14/00	150.16	11.11	0.00	139.05	—	ND	—	2.4	ND	ND	ND	40	49	
03/07/01	150.16	8.50	0.00	141.66	2.61	ND	—	ND	ND	ND	ND	15.7	15	
06/05/01	150.16	10.78	0.00	139.38	-2.28	ND	—	ND	ND	ND	ND	ND	ND	
09/11/01	150.16	13.24	0.00	136.92	-2.46	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.8	52	
12/11/01	150.16	8.63	0.00	141.53	4.61	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.5	6.6	
03/12/02	150.16	6.25	0.00	143.91	2.38	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.5	3.2	
06/17/02	150.16	8.86	0.00	141.30	-2.61	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
09/10/02	150.16	11.85	0.00	138.31	-2.99	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<0.50	
12/10/02	150.16	13.43	0.00	136.73	-1.58	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
03/11/03	150.16	6.01	0.00	144.15	7.42	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
06/10/03	150.16	6.54	0.00	143.62	-0.53	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
09/10/03	150.16	10.47	0.00	139.69	-3.93	—	ND<50	ND<0.50	ND<0.50	ND<1.0	—	ND<2.0		
12/09/03	150.16	3.49	0.00	146.67	6.98	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
03/17/04	150.16	4.38	0.00	145.78	-0.89	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
06/02/04	150.16	6.75	0.00	143.41	-2.37	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation	TPH-G (8015M) (8260)	TPPH (8260)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B)	MTBE (8260B)	Comments
<b>MW-5 continued</b>														
08/03/04	150.16	9.21	0.00	140.95	-2.46	ND<50	--	ND<0.3	ND<0.3	ND<0.3	0.77	ND<1	ND<0.5	
11/09/04	150.16	10.00	0.00	140.16	-0.79	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
02/01/05	150.16	6.19	0.00	143.97	3.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
05/04/05	150.16	5.90	0.00	144.26	0.29	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
08/02/05	150.16	7.89	0.00	142.27	-1.99	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
11/02/05	150.16	11.10	0.00	139.06	-3.21	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
01/31/06	150.16	5.93	0.00	144.23	5.17	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50
<b>MW-6</b>														
12/14/00	150.45	10.54	0.00	139.91	--	110	--	44	ND	ND	ND	760	1100	
03/07/01	150.45	6.76	0.00	143.69	3.78	62.5	--	ND	ND	ND	ND	498	550	
06/05/01	150.45	9.94	0.00	140.51	-3.18	110	--	ND	ND	ND	ND	790	680	
09/11/01	150.45	12.75	0.00	137.70	-2.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	410	590	
12/11/01	150.45	6.29	0.00	144.16	6.46	ND<50	--	11	ND<0.50	ND<0.50	ND<0.50	400	390	
03/12/02	150.45	4.18	0.00	146.27	2.11	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	150	
06/17/02	150.45	7.30	0.00	143.15	-3.12	ND<50	--	2.6	ND<0.50	ND<0.50	ND<0.50	100	120	
09/10/02	150.45	11.62	0.00	138.83	-4.32	96	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	190	
12/10/02	150.45	--	--	--	--	--	--	--	--	--	--	--	--	
03/11/03	150.45	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
06/10/03	150.45	5.70	0.00	144.75	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	82	46	Inaccessible
09/10/03	150.45	9.36	0.00	141.09	-3.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	50	
12/09/03	150.45	7.06	0.00	143.39	2.30	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28	33	
03/17/04	150.45	4.05	0.00	146.40	3.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12	13	
06/02/04	150.45	5.50	0.00	144.95	-1.45	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	14	15	
08/03/04	150.45	8.01	0.00	142.44	-2.51	ND<50	--	ND<0.3	0.55	ND<0.3	1.2	22	21	

**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
<b>MW-6 continued</b>														
11/09/04	150.45	7.91	0.00	142.54	0.10	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	—	36
02/01/05	150.45	4.94	0.00	145.51	2.97	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	—	13
05/04/05	150.45	4.90	0.00	145.55	0.04	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	—	4.6
08/02/05	150.45	—	—	—	—	—	—	—	—	—	—	—	—	Inaccessible-Paved over
11/02/05	150.45	—	—	—	—	—	—	—	—	—	—	—	—	Covered with asphalt
01/31/06	150.45	—	—	—	—	—	—	—	—	—	—	—	—	Covered with asphalt
<b>MW-7</b>														
12/14/00	149.62	12.05	0.00	137.57	—	ND	—	ND	ND	ND	ND	10	9	
03/07/01	149.62	9.30	0.00	140.32	2.75	ND	—	ND	ND	ND	ND	6.35	12	
06/05/01	149.62	11.78	0.00	137.84	-2.48	ND	—	ND	ND	ND	ND	9.5	6.7	
09/11/01	149.62	13.90	0.00	135.72	-2.12	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.8	10	
12/11/01	149.62	9.56	0.00	140.06	4.34	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	9.8	
03/12/02	149.62	7.24	0.00	142.38	2.32	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.2	4.9	
06/17/02	149.62	10.30	0.00	139.32	-3.06	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.1	4.3	
09/10/02	149.62	12.89	0.00	136.73	-2.59	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.6	5.1	
12/10/02	149.62	—	—	—	—	—	—	—	—	—	—	—	—	Inaccessible
03/11/03	149.62	—	—	—	—	—	—	—	—	—	—	—	—	Inaccessible
06/10/03	149.62	8.27	0.00	141.35	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
09/10/03	149.62	11.85	0.00	137.77	-3.58	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	2.1	
12/10/03	149.62	9.94	0.00	139.68	1.91	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6	
03/17/04	149.62	8.33	0.00	141.29	1.61	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0		
06/02/04	149.62	10.14	0.00	139.48	-1.81	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.8	
08/03/04	149.62	12.53	0.00	137.09	-2.39	ND<50	—	ND<0.3	ND<0.3	ND<0.6	ND<1	ND<0.5		
11/09/04	149.62	11.05	0.00	138.57	1.48	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	1.8	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date	TOC Sampled	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M)	TPPH (8260)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8266B) (µg/l)	Comments
<b>MW-7 continued</b>														
02/01/05	149.62	7.34	0.00	142.28	3.71	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	0.62	
05/04/05	149.62	7.32	0.00	142.30	0.02	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	0.54	
08/02/05	149.62	8.89	0.00	140.73	-1.57	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	0.81	
11/02/05	149.62	10.79	0.00	138.83	-1.90	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	1.3	
01/31/06	149.62	5.23	0.00	144.39	5.56	ND<50	—	ND<0.30	ND<0.30	ND<0.30	ND<0.60	—	ND<0.50	
<b>MW-8</b>														
12/14/00	150.49	12.83	0.00	137.66	—	ND	—	ND	ND	ND	ND	ND	ND	
03/07/01	150.49	9.88	0.00	140.61	2.95	ND	—	ND	ND	ND	ND	ND	ND	
06/05/01	150.49	12.57	0.00	137.92	-2.69	ND	—	ND	ND	ND	ND	ND	ND	
09/11/01	150.49	14.61	0.00	135.88	-2.04	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
12/11/01	150.49	9.80	0.00	140.69	4.81	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
03/12/02	150.49	7.34	0.00	143.15	2.46	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
06/17/02	150.49	11.15	0.00	139.34	-3.81	—	—	—	—	—	—	—	—	
09/10/02	150.49	13.75	0.00	136.74	-2.60	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	1.2	
12/10/02	150.49	14.93	0.00	135.56	-1.18	—	—	—	—	—	—	—	—	
03/11/03	150.49	7.96	0.00	142.53	6.97	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
06/10/03	150.49	—	—	—	—	—	—	—	—	—	—	—	—	
09/10/03	150.49	12.70	0.00	137.79	—	—	ND<50	ND<0.50	ND<0.50	ND<1.0	—	—	ND<2.0	
12/09/03	150.49	8.56	0.00	141.93	4.14	—	—	—	—	—	—	—	—	
03/17/04	150.49	9.23	0.00	141.26	-0.67	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	4.7	
06/02/04	150.49	12.02	0.00	138.47	-2.79	—	—	—	—	—	—	—	—	
08/03/04	150.49	14.65	0.00	135.84	-2.63	ND<50	—	ND<0.3	ND<0.3	ND<0.6	ND<1	0.62		
11/09/04	150.49	14.13	0.00	136.36	0.52	—	—	—	—	—	—	—	—	
02/01/05	150.49	10.90	0.00	139.59	3.23	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	3.9	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8240B)	Comments
05/04/05	150.49	8.90	0.00	141.59	2.00	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
08/02/05	150.49	12.49	0.00	138.00	-3.59	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	10	Sampled semi-annually
11/02/05	150.49	13.50	0.00	136.99	-1.01	--	--	--	--	--	--	--	--	Sampled semi-annually
01/31/06	150.49	7.06	0.00	143.43	6.44	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	--	6.2	
<b>MW-8 continued</b>														
12/14/00	149.97	11.60	0.00	138.37	--	ND	--	ND	ND	ND	ND	ND	ND	3.1
03/07/01	149.97	8.71	0.00	141.26	2.89	ND	--	ND	ND	ND	ND	ND	6.22	4.4
06/05/01	149.97	11.32	0.00	138.65	-2.61	ND	--	ND	ND	ND	ND	ND	8.8	7.9
09/11/01	149.97	13.29	0.00	136.68	-1.97	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.0	10
12/11/01	149.97	9.10	0.00	140.87	4.19	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.1	6.6
03/12/02	149.97	6.35	0.00	143.62	2.75	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.88	5.7
06/17/02	149.97	9.75	0.00	140.22	-3.40	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.9	8.1
09/10/02	149.97	12.40	0.00	137.57	-2.65	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.4	9.2
12/10/02	149.97	13.63	0.00	136.34	-1.23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0
03/11/03	149.97	6.75	0.00	143.22	6.88	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0
06/10/03	149.97	7.93	0.00	142.04	-1.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0
09/10/03	149.97	11.35	0.00	138.62	-3.42	--	ND<50	ND<50	ND<50	ND<50	ND<1.0	--	2.5	
12/09/03	149.97	9.15	0.00	140.82	2.20	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0
03/17/04	149.97	6.90	0.00	143.07	2.25	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0
06/02/04	149.97	9.60	0.00	140.37	-2.70	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	0.77
08/03/04	149.97	7.10	0.00	142.87	2.50	ND<50	--	ND<0.3	ND<0.3	ND<0.6	ND<0.6	ND<1	ND<0.5	
11/09/04	149.97	11.85	0.00	138.12	-4.75	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.96	
02/01/05	149.97	7.66	0.00	142.31	4.19	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
05/04/05	149.97	7.41	0.00	142.56	0.25	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 2000 Through January 2006**  
**Former Circle K Store 01106**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )								
<b>MW-9 continued</b>														
08/02/05	149.97	9.89	0.00	140.08	-2.48	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	0.51
11/02/05	149.97	11.84	0.00	138.13	-1.95	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	1.1
01/31/06	149.97	6.09	0.00	143.88	5.75	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	--	--	ND<0.50

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol	Methane	Ferrous Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)
<b>MW-1</b>														
02/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/29/00	ND	ND	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND
09/18/00	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
12/14/00	ND	ND	ND	ND	ND	ND	ND	9.3	ND	ND	ND	ND	ND	ND
03/07/01	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/11/01	ND<20	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	9.2	ND<0.500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
12/11/01	ND<20	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	7.6	ND<0.500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/12/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.100	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/17/02	ND<20	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.100	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/10/02	ND<5.0	ND<50000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/10/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.120	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/11/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/10/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/10/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.01	ND<0.0001	ND<0.01	ND<0.01	ND<0.01	ND<0.01
12/09/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/17/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/02/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
08/03/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
11/09/04	—	—	—	—	—	—	—	—	—	—	—	—	—	—
02/01/05	—	—	—	—	—	—	—	—	—	—	—	—	—	—
05/04/05	—	—	—	—	—	—	—	—	—	—	—	—	—	—
08/02/05	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11/02/05	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/31/06	—	—	—	—	—	—	—	—	—	—	—	—	—	—

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene dibromide (EDB)	1,2-DCA (EDC)	DPE	ETBE	TAME	Methanol	Methane	Ferrous Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate
(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(mg/l)	(µg/l)	(mg/l)
<b>MW-2 continued</b>														
02/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	5200	ND	—	—	—
06/29/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1300	ND	—	—	—
09/18/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	770	ND	—	—	—
12/14/00	260	ND	ND	ND	ND	ND	ND	ND	ND	850	ND	—	—	—
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	2400	ND	—	—	—
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	2100	ND	—	—	—
09/11/01	ND>200	ND>200	ND>2000000	ND>20	ND>20	ND>20	ND>20	ND>20	ND>20	500	ND>0.500	—	—	—
12/11/01	ND<400	ND<10000000	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	1300	ND<0.500	—	—	—
03/12/02	ND<1000	ND<5000000	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<200	ND<0.100	—	—	—
06/17/02	ND<200	ND<200	ND<200000	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	490	0.31	—	—	—
09/10/02	ND<500	ND<5000000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	320	ND<0.500	—	—	—
12/10/02	ND<100	ND<50000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.100	—	—	—
03/11/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	—	—	—
06/10/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	110	ND<0.500	—	—	—
09/10/03	ND>2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	420	ND<0.01	ND<0.0001	—	ND<0.2
12/10/03	ND<1000	ND<5000	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	370	88.2	—	ND<200	0.93
03/17/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	32	ND<0.50	ND<0.010	ND<200	9.9
06/02/04	32	ND<250	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	61	ND<0.50	ND<0.010	ND<200	25
08/03/04	36	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	ND<1	ND<1	18	—	ND<0.001	1700	14
11/09/04	—	—	—	—	—	—	—	—	—	—	ND<0.010	ND<0	960	8.56
02/01/05	—	—	—	—	—	—	—	—	—	—	ND<0.001	0.027	460	45
05/04/05	—	—	—	—	—	—	—	—	—	—	ND<0.1	ND<50	—	18
08/02/05	—	—	—	—	—	—	—	—	—	—	ND<50	—	2500	21
11/02/05	—	—	—	—	—	—	—	—	—	—	130	—	5700	14
01/31/06	—	—	—	—	—	—	—	—	—	—	ND<0.0010	ND<100	—	5.3
										—	—	—	—	4.9

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DPE	ETBE	TAME	Methanol	Methane	Ferrous Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )
<b>MW-3 continued</b>														
02/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/29/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/18/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2	ND	ND	ND	ND
12/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND	ND
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND
09/11/01	ND<20	ND<200000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	8.6	ND<0.500	ND	ND	ND
12/11/01	ND<20	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.3	ND<0.500	ND	ND	ND
03/12/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	3.6	ND<0.100	ND	ND	ND
06/17/02	ND<20	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	6.1	ND<0.100	ND	ND	ND
09/10/02	ND<5.0	ND<50000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	13	ND<0.500	ND	ND	ND
12/10/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	0.130	ND	ND	ND	ND
03/11/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND	ND	ND	ND
06/10/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND	ND	ND	ND
09/10/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.3	ND<0.01	ND<0.0001	ND	ND
12/09/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	15	ND<10	ND<200	ND	ND
03/17/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.50	ND<0.50	ND<200	ND	ND
06/02/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	ND<0.50	ND<0.010	ND<200	ND
08/03/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	ND<1	ND<1	1.8	ND<0.001	340	ND<10	ND
11/09/04	--	--	--	--	--	--	--	--	--	ND<0.010	ND<10	ND	270	--
02/01/05	--	--	--	--	--	--	--	--	--	ND<0.001	0.068	--	40	--
05/04/05	--	--	--	--	--	--	--	--	--	ND<0.1	ND<50	--	47	--
08/02/05	--	--	--	--	--	--	--	--	--	200	--	55	ND<5.0	ND<5.0
11/02/05	--	--	--	--	--	--	--	--	--	ND<0.0051	130	110	--	43
01/31/06	--	--	--	--	--	--	--	--	--	ND<0.0010	ND<100	29	--	37
														15

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene dibromide (EDB)	1,2-DCA (EDC)	DPE	ETBE	TAME	Methanol	Methane	Ferrous Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )
<b>MW-4 continued</b>														
02/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/29/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/18/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/11/01	ND<20	ND<20	ND<500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0						
12/11/01	ND>20	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0
03/12/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/10/02	ND<5.0	ND<50000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
03/11/03	ND<100	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/10/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/17/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
08/03/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
02/01/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/31/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-5</b>														
12/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/11/01	ND>20	ND<50000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0
12/11/01	ND>20	ND<50000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0
03/12/02	ND<100	ND<50000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0
06/17/02	ND>20	ND<50000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0
09/10/02	ND<5.0	ND<50000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol	Methane	Ferrous Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )
<b>MW-5 continued</b>														
12/10/02	ND<100	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.100	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/11/03	ND<100	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/10/03	ND<100	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/10/03	ND<100	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.0001	ND<2.0	ND<2.0	ND<2.0	ND<2.0
12/09/03	ND<100	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<200	ND<200	ND<200	ND<200
03/17/04	ND<100	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.50	ND<200	ND<200	ND<200	ND<200
06/02/04	ND<5.0	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
08/03/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	ND<1	ND<0.001	ND<10	ND<10	ND<10	ND<10
11/09/04	--	--	--	--	--	--	--	--	--	ND<0.010	5000	ND<10	ND<10	ND<10
02/01/05	--	--	--	--	--	--	--	--	--	ND<0.001	0.10	ND<10	ND<10	ND<10
05/04/05	--	--	--	--	--	--	--	--	--	ND<0.1	64	--	--	--
08/02/05	--	--	--	--	--	--	--	--	--	ND<50	--	72	ND<5.0	ND<5.0
11/02/05	--	--	--	--	--	--	--	--	--	ND<0.0010	750	--	120	--
01/31/06	--	--	--	--	--	--	--	--	--	ND<0.0010	ND<100	--	ND<10	--
<b>MW-6</b>														
12/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	180	ND	--	--	--
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	93	ND	--	--	--
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	--	--	--
09/11/01	ND<100	ND<100	ND<500000	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	100	ND<0.500	--	--	--
12/11/01	ND<20	ND<20	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	69	ND<0.500	--	--	--
03/12/02	ND<1000	ND<1000	ND<5000000	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	27	ND<0.100	--	--	--
06/17/02	ND<20	ND<20	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	21	ND<0.100	--	--	--
09/10/02	ND<5.0	ND<5.0	ND<50000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	30	ND<0.500	--	--	--
06/10/03	ND<100	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	7.5	ND<0.500	--	--	--
09/10/03	ND<100	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	8.4	ND<0.01	ND<0.0001	0.41	0.74
12/09/03	ND<100	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	6.3	ND<10	ND<200	--	1200

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol	Methane	Ferric Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	( $\text{mg/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	( $\text{mg/l}$ )	( $\text{mg/l}$ )
<b>MW-6 continued</b>														
03/17/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<0.50	ND<1.0	ND<0.50	ND<2.0	ND<0.50	ND<0.10	ND<200	-	1600	-
06/02/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.5	ND<1	ND<1	2.1	ND<0.50	ND<0.10	ND<200	-	1300	-
08/03/04	ND<12	ND<800	ND<0.5	ND<0.5	-	-	-	2.9	-	ND<0.001	1800	-	ND<10	47.1
11/09/04	-	-	-	-	-	-	-	-	-	ND<0.010	ND<0	-	1700	-
02/01/05	-	-	-	-	-	-	-	-	-	ND<0.001	0.81	-	1700	-
05/04/05	-	-	-	-	-	-	-	-	-	ND<0.1	1300	-	1600	-
												-	-	3.8
<b>MW-7</b>														
12/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
09/11/01	ND>20	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>0.500	-	-	-	-	-
12/11/01	ND>20	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>0.500	-	-	-	-	-
03/12/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.100	-	-	-	-	-
06/17/02	ND>20	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>0.100	-	-	-	-	-
09/10/02	ND<5.0	ND<50000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.500	-	-	-	-	-
06/10/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	-	-	-	-	-
09/10/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.01	ND<0.0001	-	8.1	0.26	-
12/10/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	0.0846	-	1900	-	290	-
03/17/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.50	ND<0.010	2000	-	300	-	-
06/02/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.010	ND<200	-	240	-	-
08/03/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	ND<1	ND<0.001	2100	-	ND<10	-	-
11/09/04	-	-	-	-	-	-	-	-	ND<0.010	ND<10	-	890	-	-
02/01/05	-	-	-	-	-	-	-	-	ND<0.001	0.30	-	1900	-	-
05/04/05	-	-	-	-	-	-	-	-	ND<0.1	500	-	1200	-	-
08/02/05	-	-	-	-	-	-	-	-	-	500	-	610	ND<5.0	ND<1.0
11/02/05	-	-	-	-	-	-	-	-	0.0013	13000	-	720	-	ND<1.0

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol	Methane	Ferrous Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate	
01/31/06	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	
<b>MW-7 continued</b>															
01/31/06	--	--	--	--	--	--	--	--	--	ND<0.0010	1300	--	190	--	
<b>MW-8</b>															
12/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
09/11/01	ND>20	ND>500000	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						
12/11/01	ND>20	ND>500000	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						
03/12/02	ND<100	ND>500000	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						
09/10/02	ND<5.0	ND>50000	ND>50000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--						
03/11/03	ND<100	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--
09/10/03	ND<100	ND<500	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	0.0059						
03/17/04	ND<100	ND<500	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	6.1						
08/03/04	ND<12	ND<800	ND<800	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.7						
02/01/05	--	--	--	--	--	--	--	--	--	ND<0.0001	ND<0.0001	--	2.3	ND<0.0050	--
08/02/05	--	--	--	--	--	--	--	--	--	ND<0.010	ND<0.010	--	220	--	--
01/31/06	--	--	--	--	--	--	--	--	--	ND<0.001	ND<0.001	--	ND<10	--	--
<b>MW-9</b>															
12/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
03/07/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
06/05/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
09/11/01	ND>20	ND>500000	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						
12/11/01	ND>20	ND>500000	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						
03/12/02	ND<100	ND>300000	ND>300000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						
06/17/02	ND>20	ND>500000	ND>500000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--						
09/10/02	ND<5.0	ND>500000	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						
12/10/02	ND<100	ND>500000	ND>500000	ND>2.0	ND>2.0	ND>2.0	ND>2.0	ND>2.0	--						

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol	Methane	Ferrous Iron (total)	Manganese (dissolved)	Carbonate	Hydroxide	Nitrate (mg/l)
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )
<b>MW-9 continued</b>														
03/11/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND<0.500	ND<2.0	ND<0.500	—	—	—
06/10/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.500	ND<0.500	ND<2.0	ND<0.500	—	—	—
09/10/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.0001	ND<0.0001	ND<2.0	ND<0.0001	9.5	0.34	0.0089
12/09/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<10	ND<2.0	ND<2.0	—	1600	10
03/17/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<0.50	ND<0.50	ND<2.0	ND<2.0	—	570	18
06/02/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.010	ND<200	73
08/03/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	ND<0.001	ND<0.001	ND<1	ND<1	ND<0.001	30000	25.1
11/09/04	—	—	—	—	—	—	—	—	—	ND<10	ND<10	ND<0.010	1300	8.3
02/01/05	—	—	—	—	—	—	—	—	—	ND<0.001	0.083	—	1800	9.7
05/04/05	—	—	—	—	—	—	—	—	—	ND<0.1	110	—	2000	13
08/02/05	—	—	—	—	—	—	—	—	—	180	—	1700	ND<5.0	10
11/02/05	—	—	—	—	—	—	—	—	—	ND<0.0010	220	—	4400	6.8
01/31/06	—	—	—	—	—	—	—	—	—	ND<0.0010	ND<100	—	10	3.9

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	Sulfate	Sulfide	Alkalinity <sup>a</sup> (bicarb.)	Alkalinity <sup>a</sup> (carbonate/hydroxide)	Alkalinity (total)	Carbon Dioxide (Lab)	Oxygen Demand (biologic)	Oxygen Demand (chemical)	Pre-purge Dissolved Oxygen (mg/l)
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-1</b>									
09/10/03	0.009	ND<0.001	--	--	0.052	0.024	ND<0.002	ND<5	--
12/09/03	9.3	ND<1.0	36	ND<5.0	36	--	ND<6.0	ND<5.0	--
03/17/04	10	ND<1.0	25	ND<5.0	25	35	--	--	--
06/02/04	12	ND<1	15	ND<5.0	15	49	ND<6	ND<5000	--
08/03/04	7.9	ND<5	--	--	54	--	--	32	--
11/09/04	--	--	19	ND<5.0	19	19	--	5.7	--
02/01/05	12	--	24	ND<5.0	24	57	ND<6	ND<5.0	--
05/04/05	9.7	--	28	ND<5.0	28	51	ND<6	9.0	--
08/02/05	11	--	25	--	25	--	--	--	--
11/02/05	15	--	28.4	--	28.4	0.041	--	ND<10	--
01/31/06	11	--	--	--	39	19	ND<1.5	28	1.09
<b>MW-2</b>									
09/10/03	0.0059	ND<0.001	--	--	0.059	0.028	0.006	650	--
12/10/03	8.5	ND<1.0	62	--	62	--	ND<6.0	19	--
03/17/04	16	ND<1.0	27	ND<5.0	27	38	--	--	--
06/02/04	9.6	ND<1	34	ND<5.0	34	46	ND<6	ND<5000	--
08/03/04	7.7	ND<5	--	--	87	--	--	ND<20	--
11/09/04	--	--	81	ND<5.0	81	24	--	15	--
02/01/05	11	--	33	ND<5.0	33	73	ND<6	ND<5.0	--
05/04/05	12	--	28	ND<5.0	28	39	ND<6	13	--
08/02/05	7.6	--	61	--	61	--	--	--	--
11/02/05	12	--	137	--	137	0.051	--	10	--
01/31/06	15	--	--	--	39	16	ND<1.5	28	1.01
<b>MW-3</b>									
09/10/03	0.0079	ND<0.001	--	--	0.026	0.026	ND<0.02	50	--

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	Sulfate	Sulfide	Alkalinity (bicarb.)	Alkalinity (carbonate/hydroxide)	Alkalinity (total)	Carbon Dioxide (Lab)	Oxygen Demand (biologic)	Oxygen Demand (chemical)	Pre-purge Dissolved Oxygen (mg/l)
<b>MW-3 continued</b>									
12/09/03	7.1	ND<1.0	26	ND<5.0	ND<5.0	26	--	ND<6.0	13
03/17/04	20	ND<1.0	10	ND<5.0	ND<5.0	10	87	--	--
06/02/04	8.4	ND<1	19	ND<5.0	ND<5.0	19	88	ND<6	ND<5000
08/03/04	5.2	ND<0.5	--	--	--	43	--	--	--
11/09/04	--	--	19	ND<5.0	ND<5.0	19	26	--	ND<5.0
02/01/05	20	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	120	ND<6	10
05/04/05	19	--	12	ND<5.0	ND<5.0	12	120	ND<6	11
08/02/05	7.3	--	26	--	--	26	--	--	--
11/02/05	9.1	--	41.9	--	--	41.9	0.016	--	ND<10
01/31/06	22	--	--	--	--	19	65	ND<1.5	25
<b>MW-4</b>									
09/10/03	0.005	ND<0.001	--	--	--	0.036	0.028	ND<0.02	48
03/17/04	4.9	ND<1.0	30	ND<5.0	ND<5.0	30	80	--	--
08/03/04	4.4	ND<5	--	--	--	39	--	--	25
02/01/05	5.5	--	43	ND<5.0	ND<5.0	43	120	ND<6	ND<5.0
08/02/05	4.5	--	39	--	--	39	--	--	--
01/31/06	5.4	--	--	--	--	35	64	ND<1.5	25
<b>MW-5</b>									
09/10/03	0.0088	ND<0.001	--	--	--	0.026	0.02	ND<0.02	29
12/09/03	7.3	ND<1.0	52	ND<5.0	ND<5.0	52	--	ND<6.0	ND<5.0
03/17/04	8.6	ND<1.0	15	ND<5.0	ND<5.0	15	39	--	--
06/02/04	7.9	ND<1	29	ND<5.0	ND<5.0	29	55	ND<6	ND<5000
08/03/04	7.2	ND<5	--	--	--	64	--	--	36
11/09/04	--	--	39	ND<5.0	ND<5.0	39	23	--	ND<5.0
02/01/05	9.5	--	19	ND<5.0	ND<5.0	19	37	ND<6	ND<5.0
05/04/05	7.9	--	19	ND<5.0	ND<5.0	19	28	ND<6	5.3

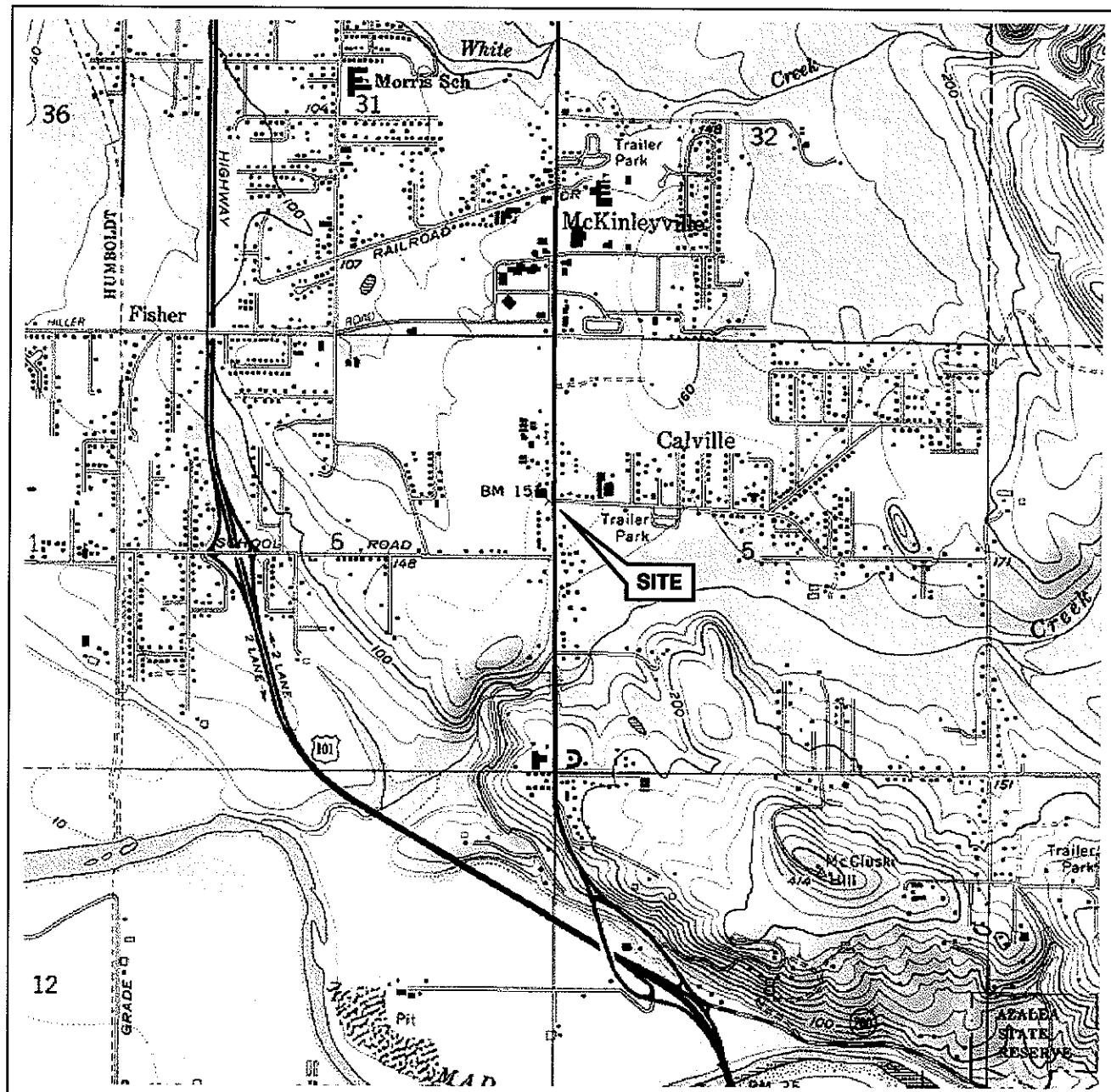
**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	Sulfate	Sulfide	Alkalinity (bicarb.)	Alkalinity (carbonate)	Alkalinity (hydroxide)	Alkalinity (total)	Carbon Dioxide (Lab)	Oxygen Demand (biologic)	Oxygen Demand (chemical)	Pre-purge Dissolved Oxygen (mg/l)
<b>MW-5 continued</b>										
08/02/05	11	--	24	--	--	24	--	--	--	--
11/02/05	6.6	--	51.5	--	--	51.5	0.071	--	ND<10	--
01/31/06	12	--	--	--	--	27	17	ND<1.5	55	1.13
<b>MW-6</b>										
09/10/03	0.024	ND<0.001	--	ND<5.0	ND<5.0	83	--	ND<0.006	15	--
12/09/03	31	ND<1.0	83	ND<5.0	ND<5.0	96	72	ND<6.0	8.2	--
03/17/04	34	ND<1.0	96	ND<5.0	ND<5.0	73	140	ND<6	13000	--
06/02/04	34	ND<1	73	ND<5.0	ND<5.0	--	--	--	--	--
08/03/04	6.6	ND<5	--	--	--	36	--	--	48	--
11/09/04	--	--	76	ND<5.0	ND<5.0	76	29	--	7.2	--
02/01/05	35	--	62	ND<5.0	ND<5.0	62	150	ND<6	10	--
05/04/05	31	--	60	ND<5.0	ND<5.0	60	140	ND<6	27	--
<b>MW-7</b>										
09/10/03	0.025	ND<0.001	--	--	--	0.1	0.033	ND<0.02	29	--
12/10/03	28	ND<1.0	130	--	--	130	--	ND<6.0	29	--
03/17/04	24	ND<1.0	120	ND<5.0	ND<5.0	120	110	--	--	--
06/02/04	110	ND<1	73	ND<5.0	ND<5.0	73	100	ND<6	ND<5000	--
08/03/04	8.7	ND<5	--	--	--	85	--	--	54	--
11/09/04	270	--	27	ND<5.0	ND<5.0	27	21	--	18	--
02/01/05	150	--	48	ND<5.0	ND<5.0	48	120	ND<6	12	--
05/04/05	86	--	50	ND<5.0	ND<5.0	50	110	ND<6	9.5	--
08/02/05	79	--	52	--	--	52	--	--	--	--
11/02/05	160	--	50.3	--	--	50.3	0.13	--	ND<10	--
01/31/06	60	--	--	--	--	51	80	ND<1.5	25	1.01

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former Circle K Store 01106**

Date Sampled	Sulfate	Sulfide	Alkalinity (bicarb.)	Alkalinity (carbonate/hydroxide)	Alkalinity (total)	Carbon Dioxide (Lab)	Oxygen Demand (biologic)	Oxygen Demand (chemical)	Pre-purge Dissolved Oxygen (mg/l)
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-8 continued</b>									
09/10/03	0.017	ND<0.001	--	--	--	0.057	0.023	ND<0.02	30
03/17/04	16	ND<1.0	50	ND<5.0	50	49	--	--	--
08/03/04	22	ND<5	--	--	31	--	--	66	--
02/01/05	20	--	69	ND<5.0	69	92	ND<6	8.0	--
08/02/05	17	--	68	--	68	--	--	--	--
01/31/06	17	--	--	--	69	52	ND<1.5	25	1.26
<b>MW-9</b>									
09/10/03	0.025	ND<0.001	--	--	--	0.078	0.026	ND<0.006	21
12/09/03	26	--	100	ND<5.0	100	--	--	--	--
03/17/04	25	ND<1.0	55	ND<5.0	55	79	--	--	--
06/02/04	26	ND<1	78	ND<5.0	78	160	ND<6	ND<5000	--
08/03/04	8.2	ND<5	--	--	32	--	--	34	--
11/09/04	--	--	79	ND<5.0	79	24	--	7.6	--
02/01/05	27	--	72	ND<5.0	72	100	ND<6	ND<5.0	--
05/04/05	28	--	61	ND<5.0	61	75	ND<6	21	--
08/02/05	28	--	71	--	71	--	--	--	--
11/02/05	28	--	79	--	79	0.074	--	ND<10	--
01/31/06	25	--	--	--	68	54	ND<1.5	25	0.91

# **FIGURES**



0    1/4    1/2    3/4    1 MILE

SCALE 1:24,000

QUADRANGLE LOCATIONS

SOURCE:

United States Geological Survey  
7.5 Minute Topographic Maps:  
Arcata North and Tyee City  
Quadrangles

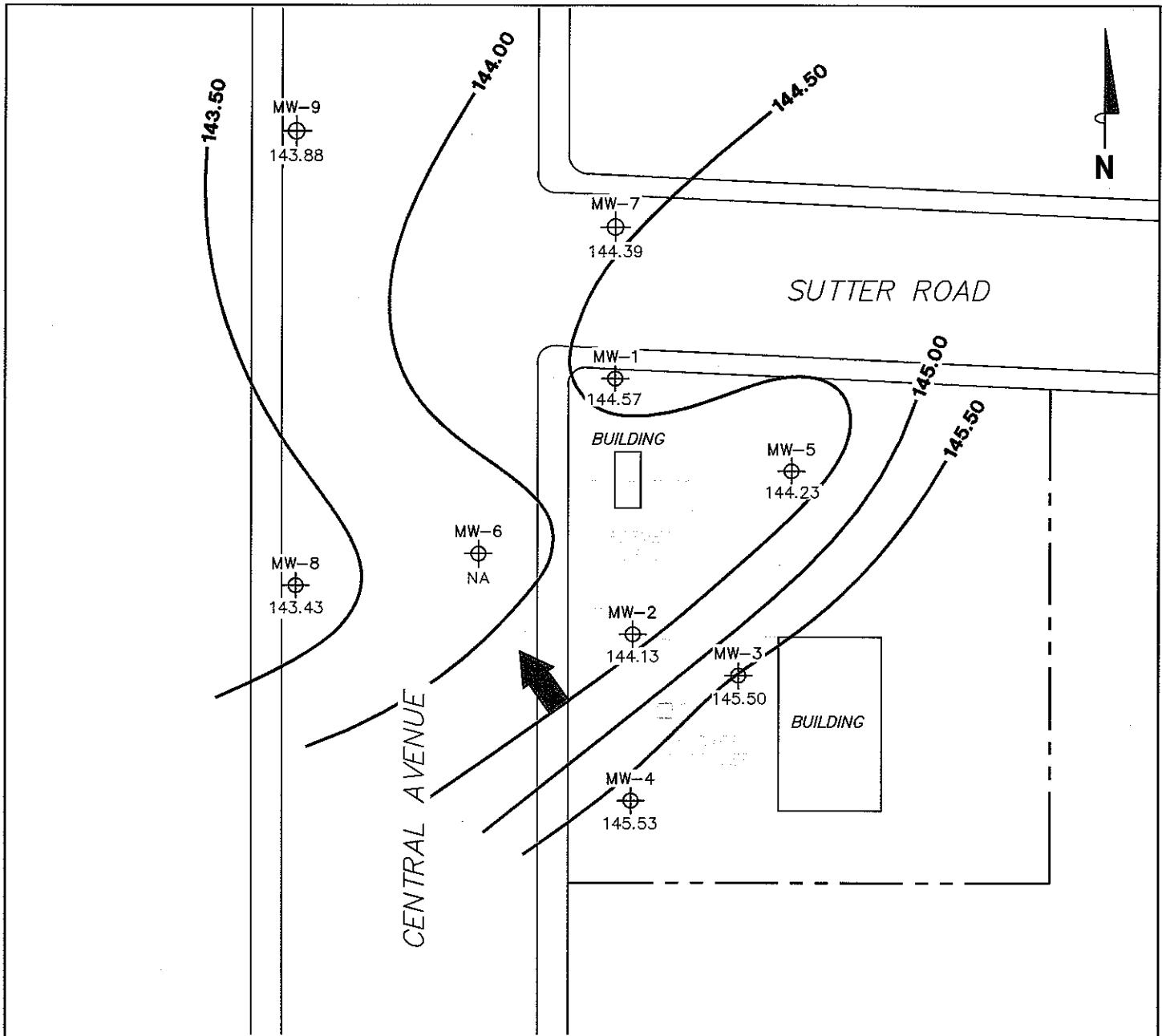
**VICINITY MAP**

Former Circle K Store 01106  
1693 Central Avenue  
McKinleyville, California

**TRC**

PS = 1:1

**FIGURE 1**



NOTES:

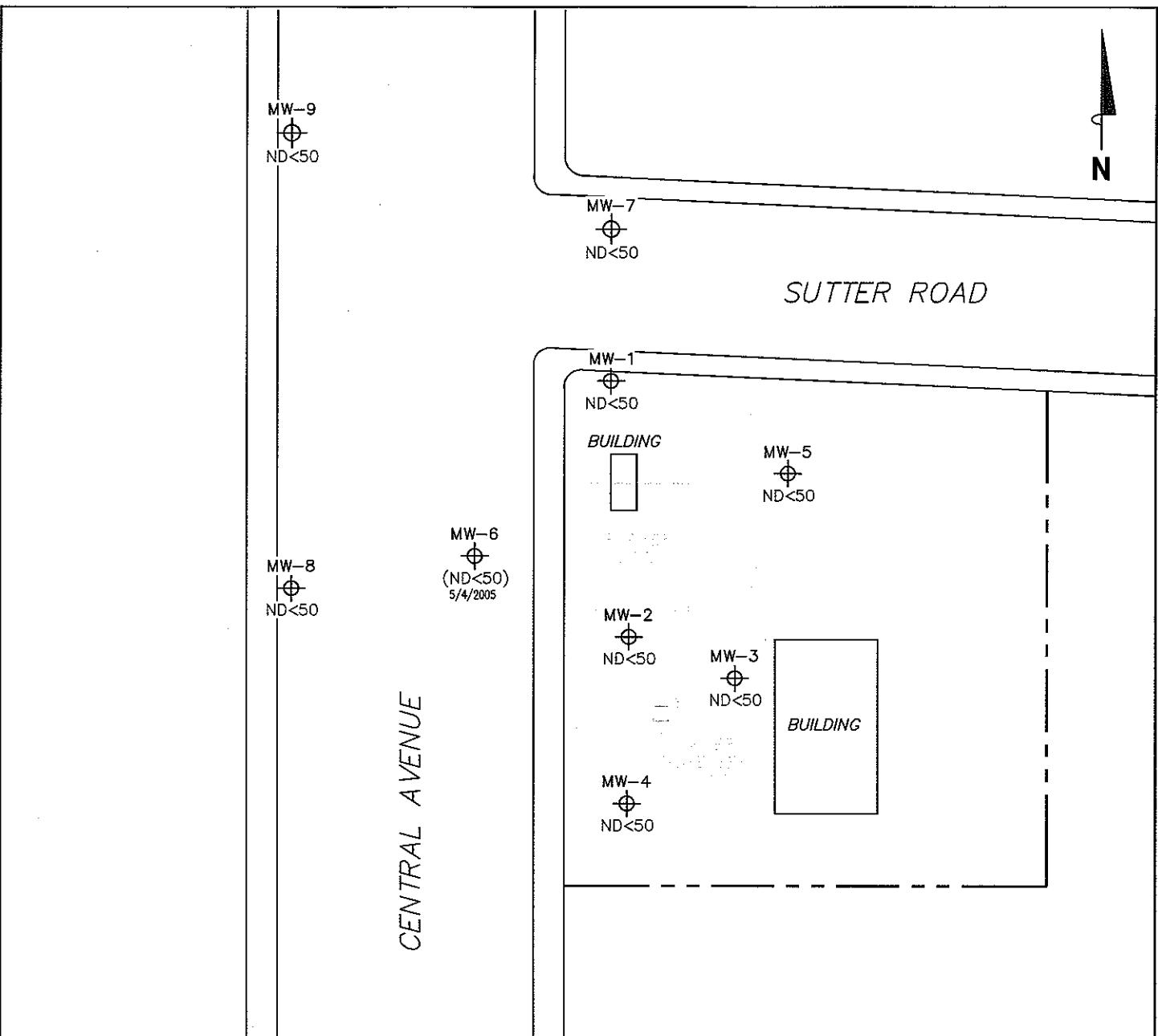
Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank. NA = not analyzed, measured, or collected.

LEGEND

- MW-9 — Monitoring Well with Groundwater Elevation (feet)
- 145.50 — Groundwater Elevation Contour
- General Direction of Groundwater Flow

**GROUNDWATER ELEVATION  
CONTOUR MAP  
January 31, 2006**

Former Circle K Store 01106  
1693 Central Avenue  
McKinleyville, California



NOTES:

TPH-G = total petroleum hydrocarbons as gasoline.  
 $\mu\text{g/l}$  = micrograms per liter. UST = underground storage tank.  
 ND = not detected at limit indicated on official laboratory report. ( ) = representative of historical value. Results obtained using EPA Method 8015.

LEGEND

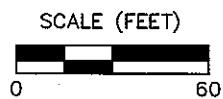
MW-9 Monitoring Well with  
Dissolved-Phase TPH-G  
Concentration ( $\mu\text{g/l}$ )

**DISSOLVED-PHASE TPH-G  
CONCENTRATION MAP**  
January 31, 2006

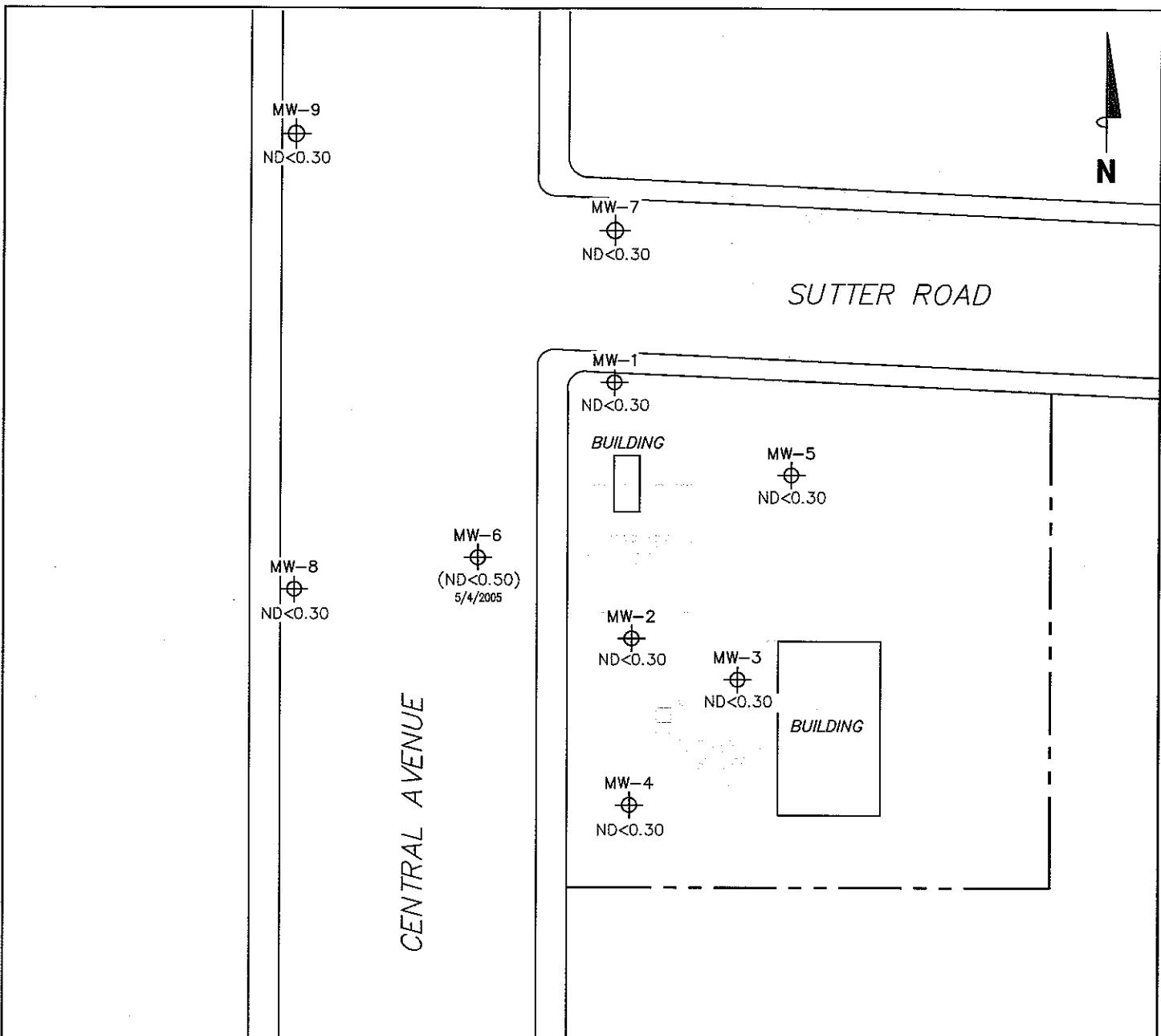
Former Circle K Store 01106  
1693 Central Avenue  
McKinleyville, California

PS=1:1 01106--003

**TRC**



**FIGURE 3**



NOTES:

$\mu\text{g/l}$  = micrograms per liter. UST = underground storage tank. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured or collected. ( ) = representative of historical value.

LEGEND

MW-9 Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )

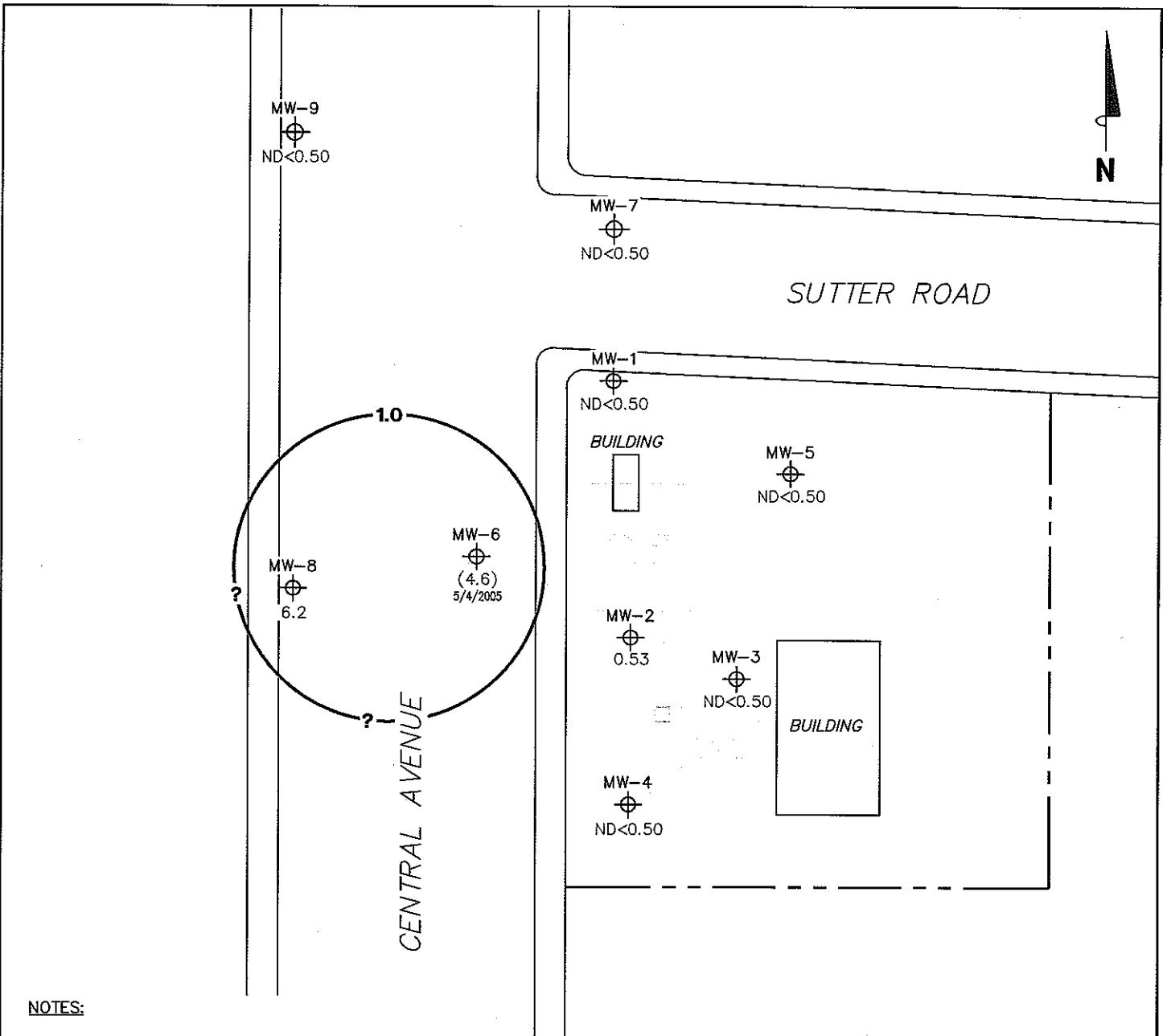
**DISSOLVED-PHASE BENZENE CONCENTRATION MAP**  
January 31, 2006

Former Circle K Store 01106  
1693 Central Avenue  
McKinleyville, California

SCALE (FEET)  
0 60

**TRC**

**FIGURE 4**



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether.  
 $\mu\text{g/l}$  = micrograms per liter. UST = underground storage tank. ND = not detected at limit indicated on official laboratory report. ( ) = representative of historical value. Results obtained using EPA Method 8260B.

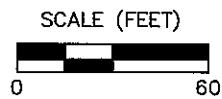
LEGEND

- MW-9 Monitoring Well with Dissolved-Phase MTBE Concentration ( $\mu\text{g/l}$ )
- 1.0— Dissolved-Phase MTBE Contour ( $\mu\text{g/l}$ )

**DISSOLVED-PHASE MTBE CONCENTRATION MAP**  
**January 31, 2006**

Former Circle K Store 01106  
 1693 Central Avenue  
 McKinleyville, California

PS=1:1 01106-003

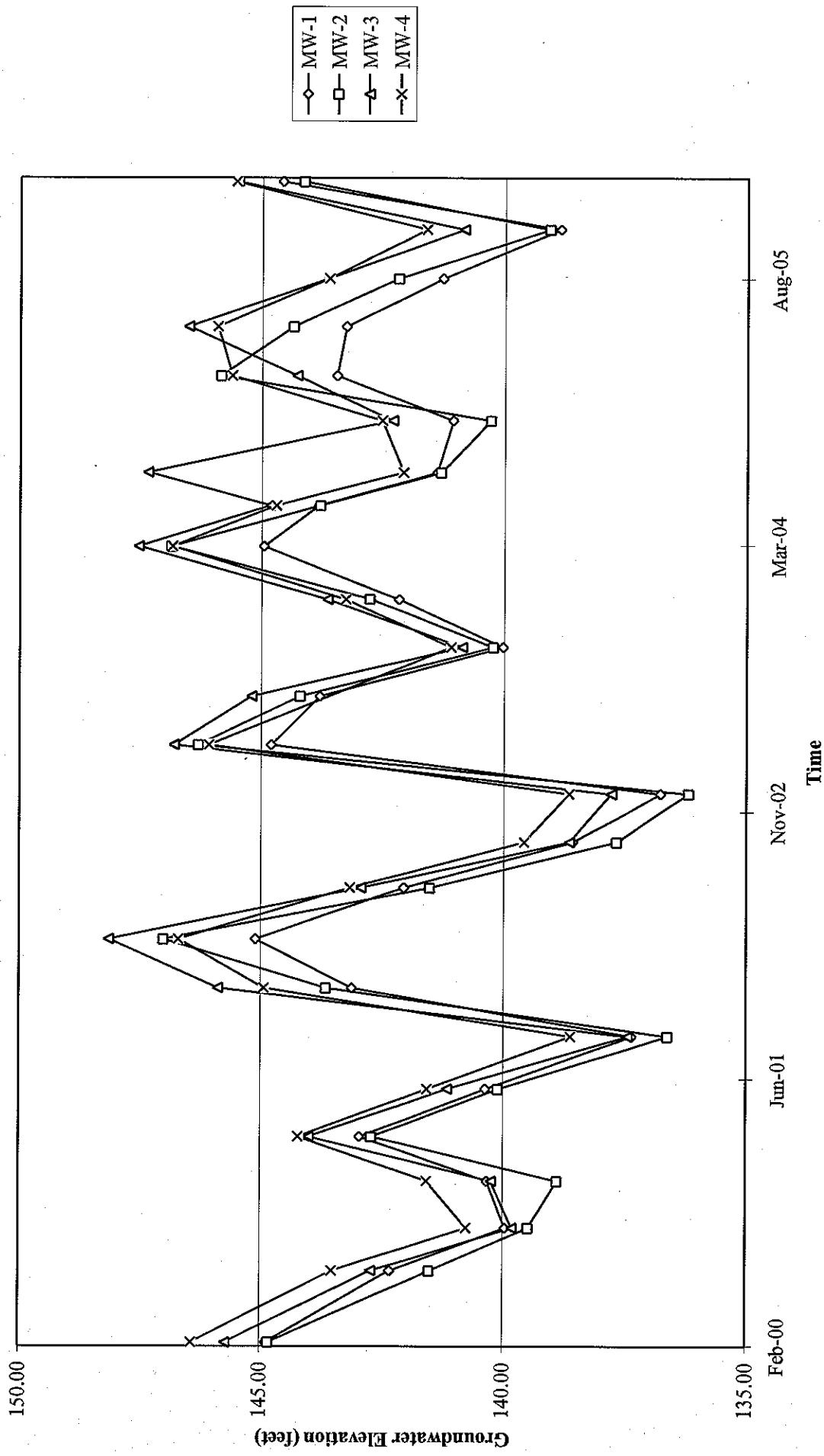


**TRC**

**FIGURE 5**

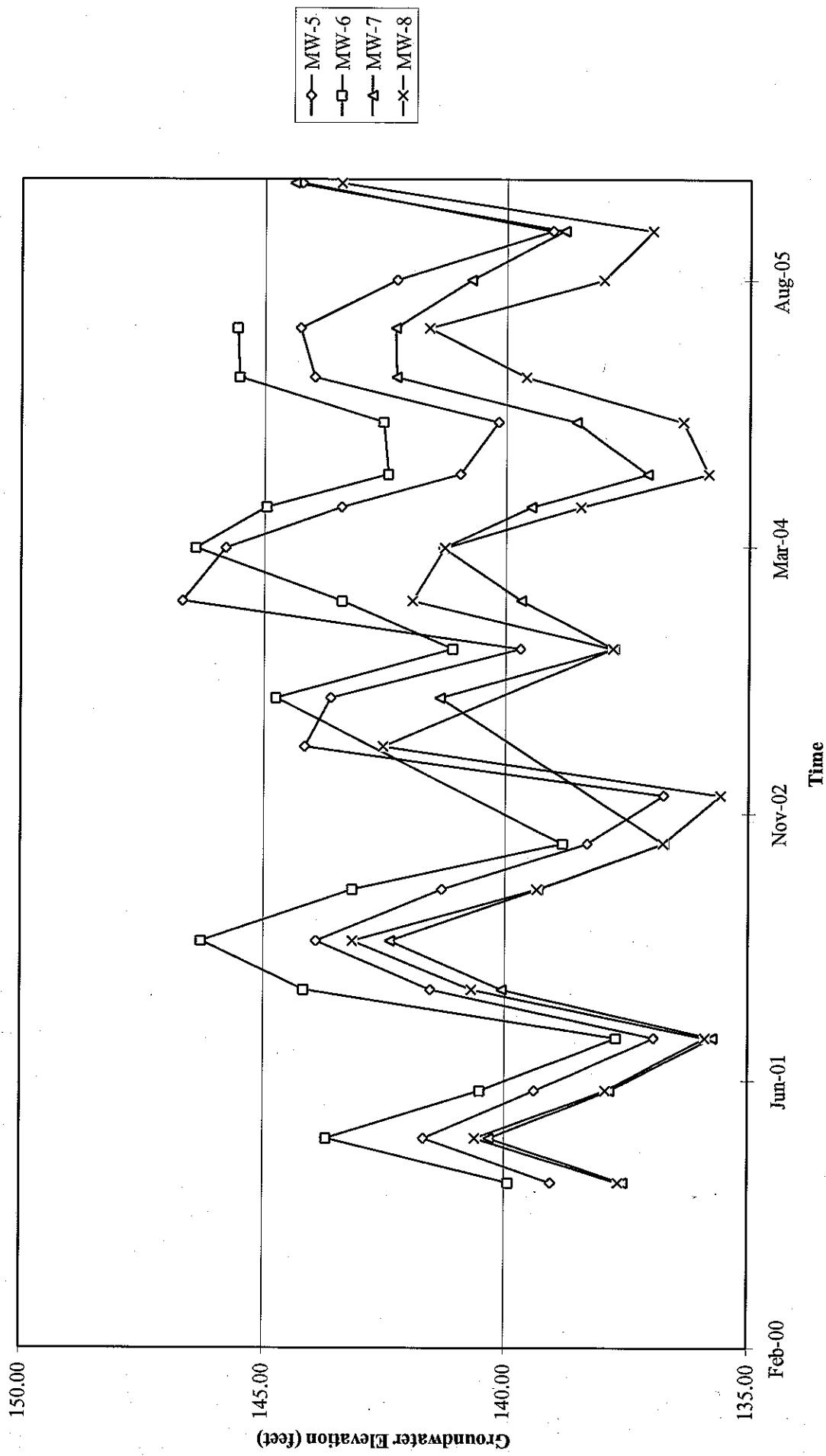
# **GRAPHS**

Groundwater Elevations vs. Time  
Former Circle K Store 01106



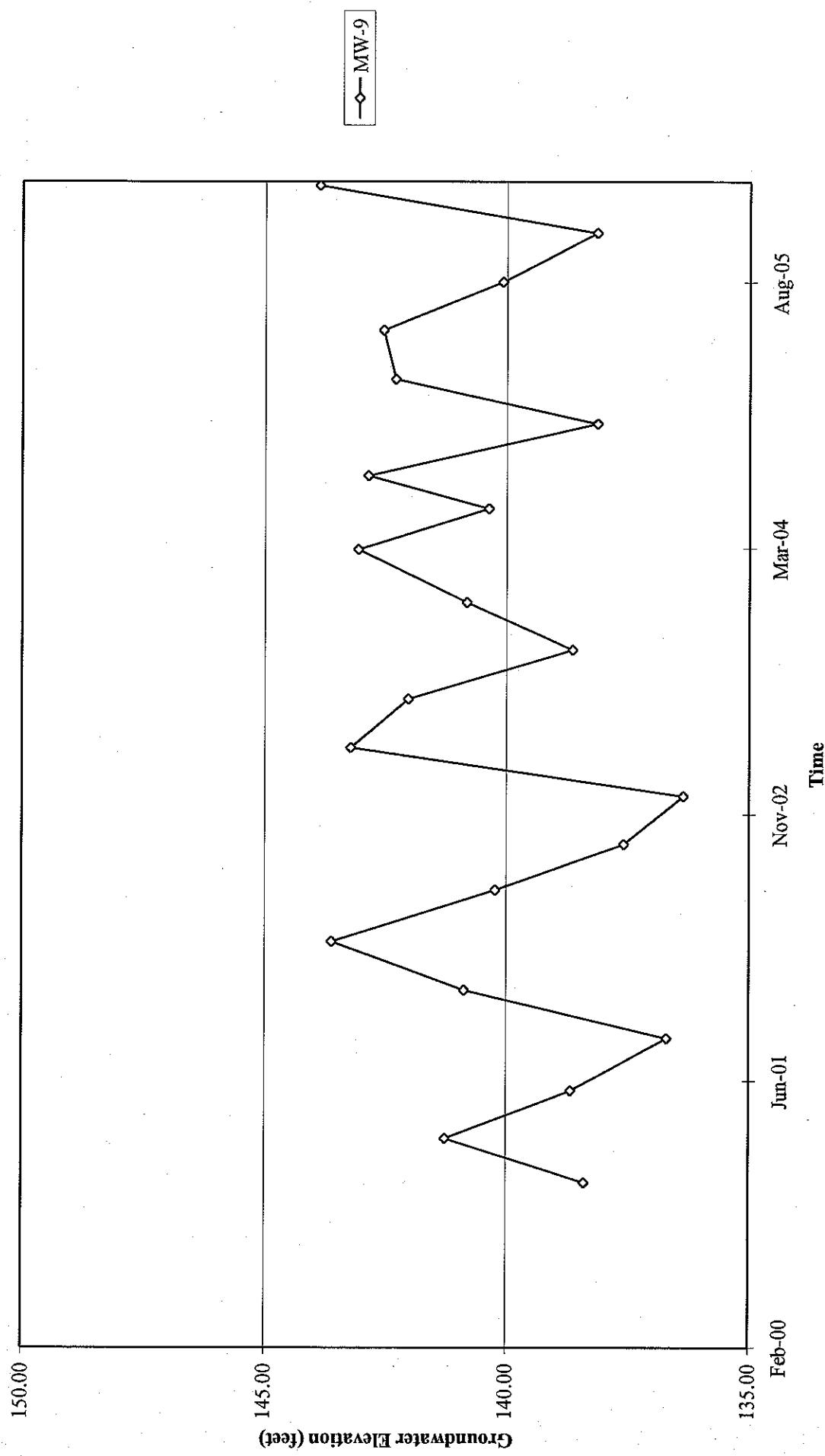
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
Former Circle K Store 01106



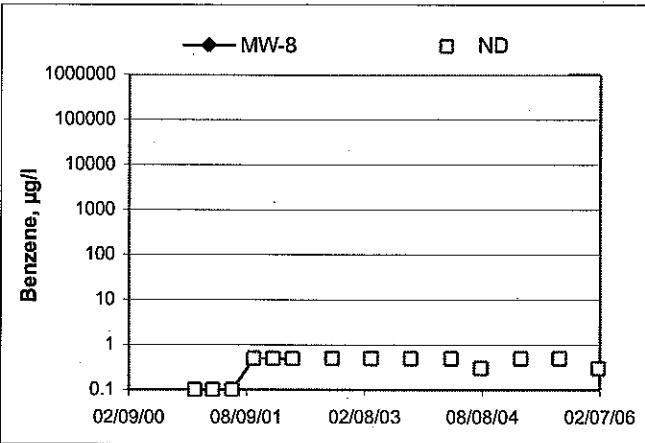
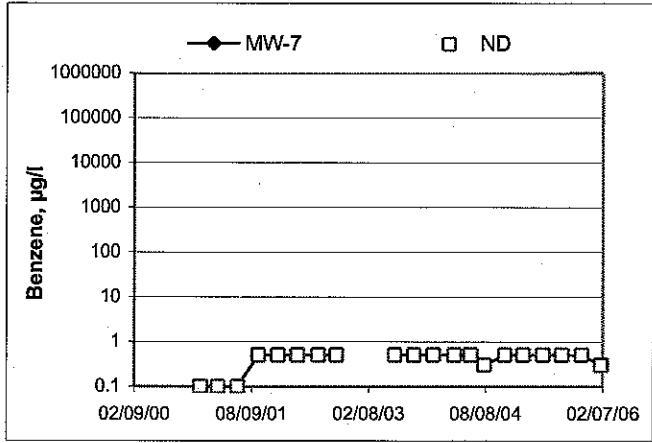
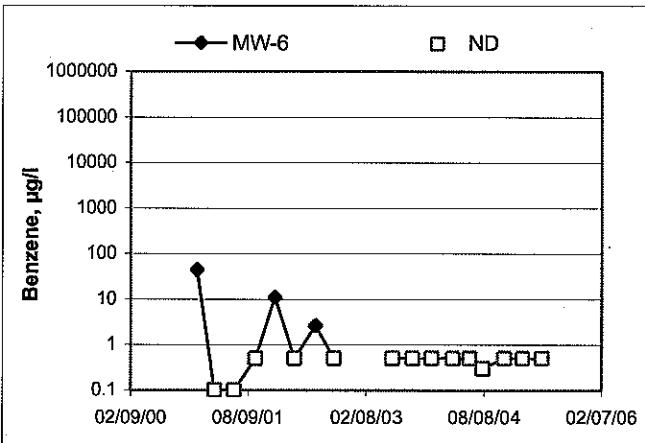
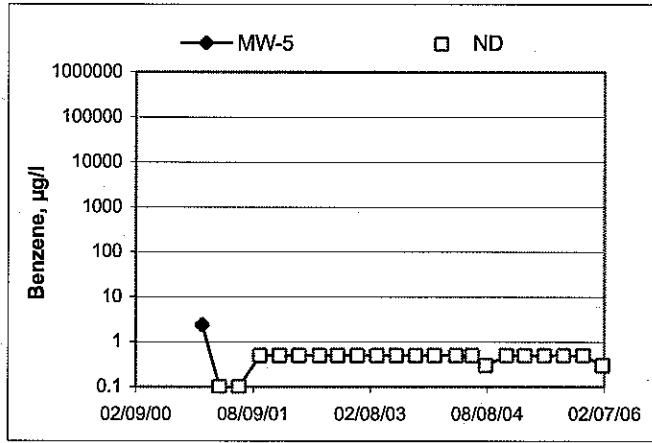
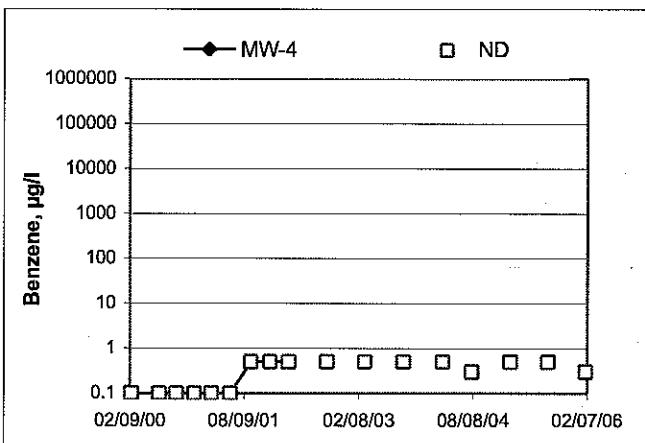
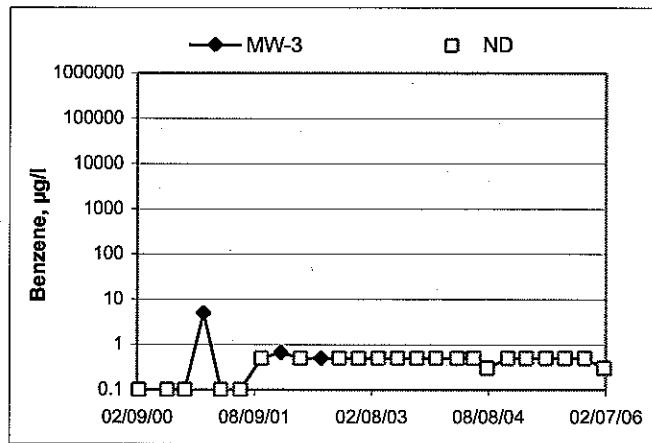
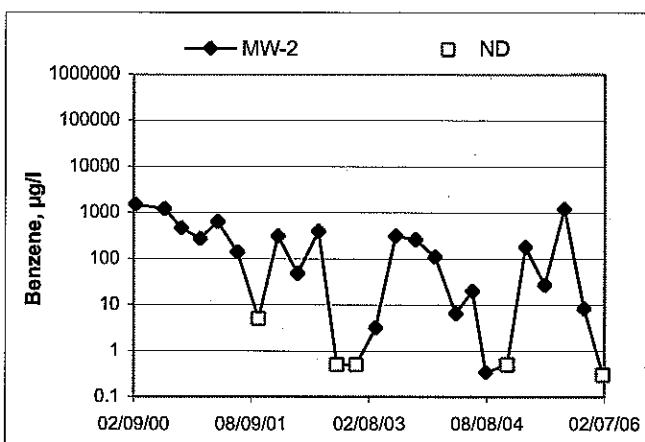
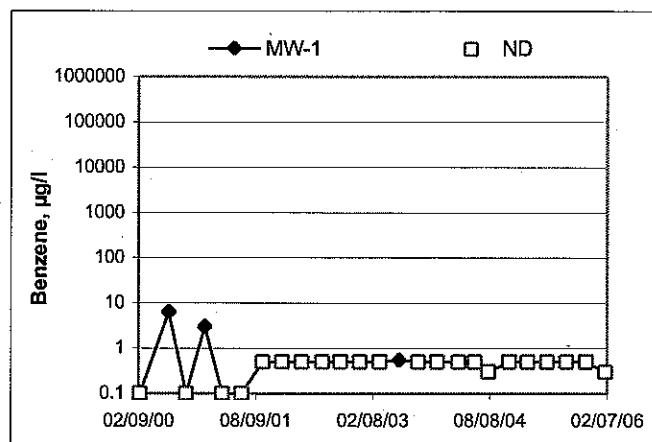
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
Former Circle K Store 01106



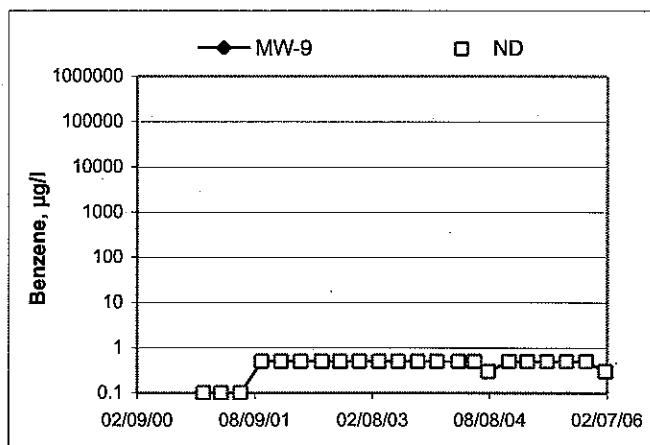
Elevations may have been corrected for apparent changes due to resurvey

**Benzene Concentrations vs Time**  
Former Circle K Store 01106

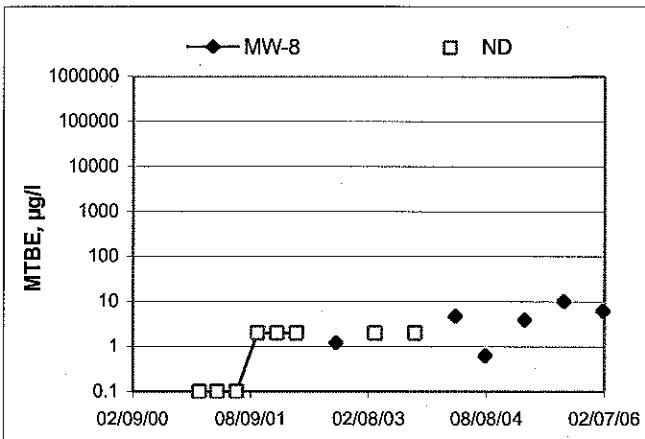
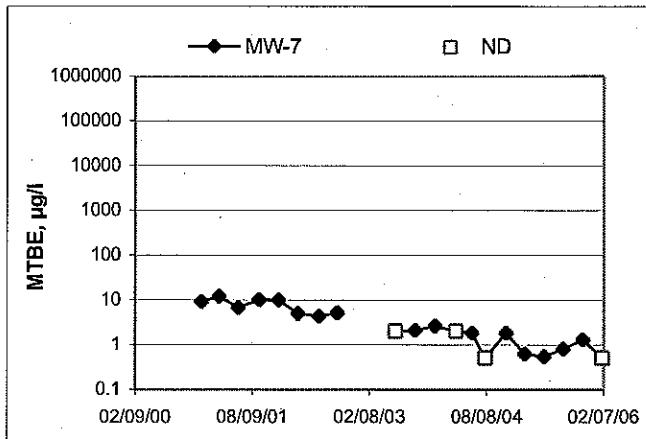
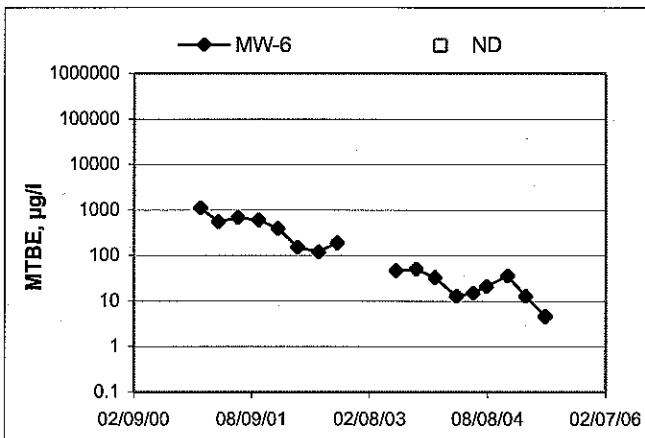
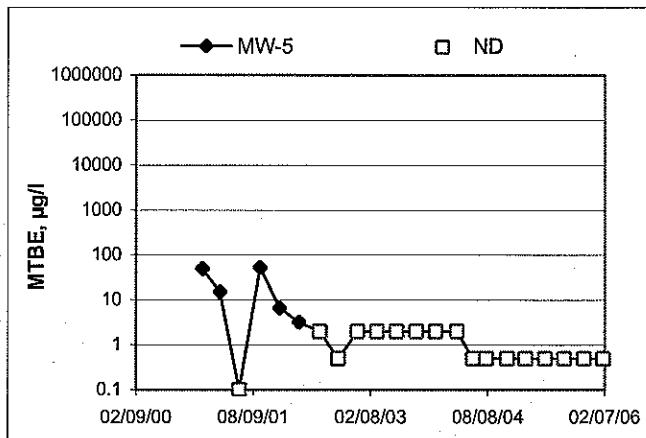
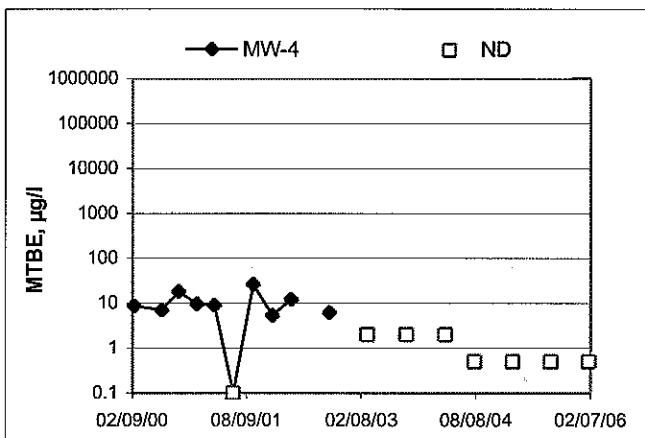
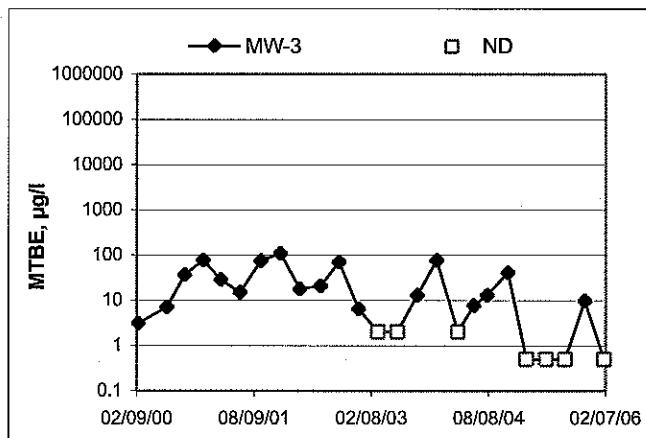
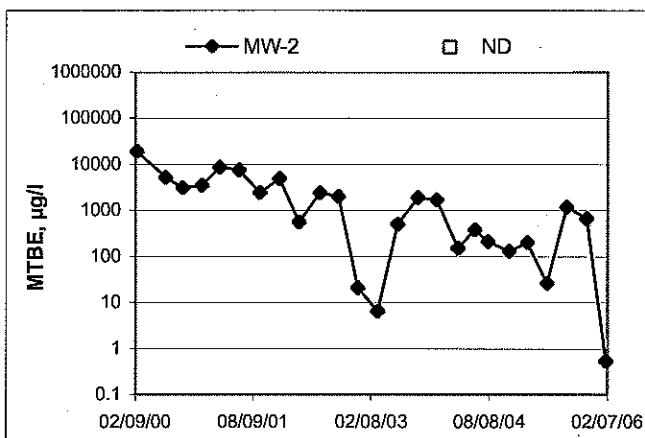
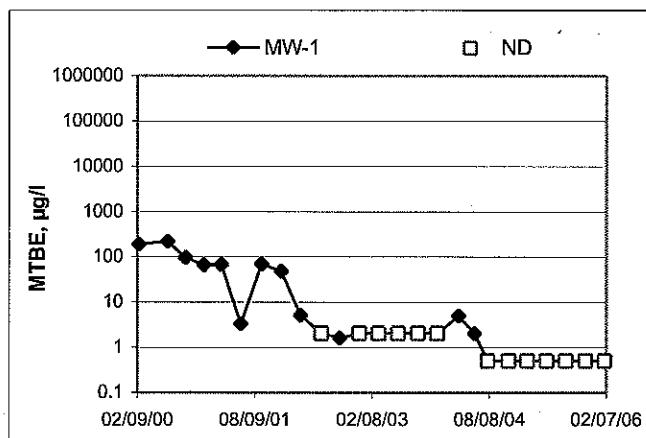


## **Benzene Concentrations vs Time**

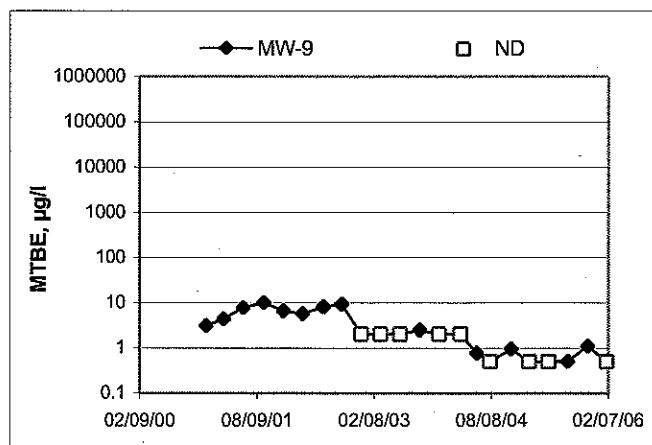
Former Circle K Store 01106



**MTBE Concentrations vs Time**  
Former Circle K Store 01106



**MTBE Concentrations vs Time**  
Former Circle K Store 01106



## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

### **Fluid Level Measurements**

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

### **Purging and Groundwater Parameter Measurement**

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

## **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable,  $\frac{1}{2}$ -inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

## **Sequence of Gauging, Purging and Sampling**

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

## **Decontamination**

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular wells, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

## **Exceptions**

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

# FIELD MONITORING DATA SHEET

Technician: Melissa, Jamie Job #/Task #: 41050001 / FA20

Date: 01-31-04

**Site #** 01106

Project Manager A. Collins

Page \_\_\_\_\_ of \_\_\_\_\_

## **GROUNDWATER SAMPLING FIELD NOTES**

Technician: Melissa

Site: 0106

Project No.: 4108026

Date: 01-31-05

Well No.: MW-1

Depth to Water (feet): 4.98

Total Depth (feet): 17.02

Water Column (feet): 12.34

80% Recharge Depth (feet): 1.33

Purge Method: DIC

Depth to Product (feet):

LPH & Water Recovered (gallons): \_\_\_\_\_

Casing Diameter (Inches): 2

1 Well Volume (gallons): 2

Well No.: MW-7

Depth to Water (feet): 5.23

Total Depth (feet): 17.09

Water Column (feet): 11.86

80% Recharge Depth (feet): 7.60

Purge Method: Dia

Depth to Product (feet): \_\_\_\_\_

LPH & Water Recovered (gallons): \_\_\_\_\_

Casing Diameter (Inches): 2"

1 Well Volume (gallons): 2

# GROUNDWATER SAMPLING FIELD NOTES

Technician: Me (essa)

Site: 0140C

Project No.: 4105000

Date: 01-31-06

Well No.: MW-4

### Purge Method:

Depth to Water (feet): 5.13

**Depth to Product (feet):** \_\_\_\_\_

Total Depth (feet): 12.04

LPH & Water Recovered (gallons):

Water Column (feet): 6.91

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 6.5

1 Well Volume (gallons): 1

Well No.: MW-3

Purge Method:

Depth to Water (feet): 5.04

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 16.90

### LPH & Water Recovered (gall)

Water Column (feet): 11.86

Casing Diameter (Inches): 2"

# **GROUNDWATER SAMPLING FIELD NOTES**

Technician: MUL 359

Site: 01106

Project No.: 4105600

Date: 01-31-00

Well No.: MW-5

Purge Method: Dissolve

Depth to Water (feet): 5.93

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 17.04

**LPH & Water Recovered (gallons)**

Water Column (feet): 111

Casing Diameter (Inches): 7

80% Recharge Depth (feet): 8.15

1 Well Volume (gallons): 2

Well No.: MW-2

Purge Method: Dia

Depth to Water (feet): 6-0 (

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 17.67

### LPH & Water Recovered (gallons)

Water Column (feet): 11.06

Seeding Diameter (inches): 1.50000

# GROUNDWATER SAMPLING FIELD NOTES

Technician: Malissa

Site: 0304

Project No.: 41056000

Date: 01-31-06

Well No.: MW-9

#### Purge Method:

Depth to Water (feet): 6.09

**Depth to Product (feet):** \_\_\_\_\_

Total Depth (feet): 19.46

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 13.3

Casing Diameter (Inches): 2

80% Recharge Depth (feet): 3

1 Well Volume (gallons): 2

Well No.: MW-8

Purge Method: D's

Depth to Water (feet): 7.06

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 19.40

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 12.4

Casing Diameter (Inches): 2

## STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 01-31-06 STATION NUMBER: 01106

NAME OF TECH: Melissa CALLED GORDON: \_\_\_\_\_

CALLED PM: Y NAME OF PM CALLED: A. Collins

WELL NUMBER: Mw-6 STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

Well is patched and the patch has  
become hard.

WELL NUMBER: \_\_\_\_\_ STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

WELL NUMBER: \_\_\_\_\_ STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

WELL NUMBER: \_\_\_\_\_ STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_



Date of Report: 02/14/2006

Anju Farfan

TRC Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618-2302  
RE: 01106  
BC Lab Number: 0601073

Enclosed are the results of analyses for samples received by the laboratory on 02/01/06 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Vanessa Hooker".

Contact Person: Vanessa Hooker  
Client Service Rep

Authorized Signature

A handwritten signature in black ink, appearing to read "V. Hooker". It is written over a horizontal line that also serves as a signature line.



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Laboratory / Client Sample Cross Reference

### Laboratory    Client Sample Information

0601073-01	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 04:58	Global ID: T0602300436
	Sampling Location:	MW-1	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-1	Sample Matrix:	Water	Same QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		
0601073-02	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 05:55	Global ID: T0602300436
	Sampling Location:	MW-7	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-7	Sample Matrix:	Water	Same QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		
0601073-03	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 06:10	Global ID: T0602300436
	Sampling Location:	MW-9	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-9	Sample Matrix:	Water	Same QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		
0601073-04	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 06:30	Global ID: T0602300436
	Sampling Location:	MW-8	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-8	Sample Matrix:	Water	Same QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		
0601073-05	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 07:17	Global ID: T0602300436
	Sampling Location:	MW-4	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-4	Sample Matrix:	Water	Same QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Laboratory / Client Sample Cross Reference

### Laboratory    Client/Sample Information

0601073-06	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 07:05	Global ID: T0602300436
	Sampling Location:	MW-3	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-3	Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		
0601073-07	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 07:30	Global ID: T0602300436
	Sampling Location:	MW-5	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-5	Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		
0601073-08	COC Number:	---	Receive Date:	02/01/06 10:30	Delivery Work Order:
	Project Number:	01106	Sampling Date:	01/31/06 06:50	Global ID: T0602300436
	Sampling Location:	MW-2	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-2	Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	Melissa/Jaime of TRCI	Cooler ID:		



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0601073-01	Client Sample Name:	01106, MW-1, 1/31/2006	4:58:00AM, Melissa/Jaime	Prep Date	Run Date/Time	Analyst	Instrument ID	QC	MB Bias	Lab Quals
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Batch ID			
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	02/06/06	02/07/06	14:07	MCF	MS-V10	1	BPB0376
1,2-Dichloroethane-d4 (Surrogate)	92.0	%	76 - 114 (LCL - UCL)	EPA-8260	02/06/06	02/07/06	14:07	MCF	MS-V10	1	BPB0376
Toluene-d8 (Surrogate)	96.6	%	88 - 110 (LCL - UCL)	EPA-8260	02/06/06	02/07/06	14:07	MCF	MS-V10	1	BPB0376
4-Bromofluorobenzene (Surrogate)	92.4	%	86 - 115 (LCL - UCL)	EPA-8260	02/06/06	02/07/06	14:07	MCF	MS-V10	1	BPB0376



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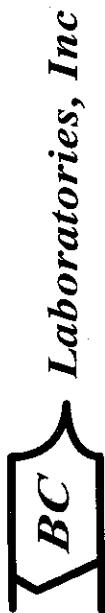
Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0601073-01 Client Sample Name: 01106, MWV-1, 1/31/2006 4:58:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 10:19	CAW	GC-V4	1	BPB0281	ND	
Toluene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 10:19	CAW	GC-V4	1	BPB0281	ND	
Ethylbenzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 10:19	CAW	GC-V4	1	BPB0281	ND	
Total Xylenes	ND	ug/L	0.60		EPA-8021	01/31/06	02/02/06 10:19	CAW	GC-V4	1	BPB0281	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	01/31/06	02/02/06 10:19	CAW	GC-V4	1	BPB0281	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	89.0	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06 10:19	CAW	GC-V4	1	BPB0281			
a,a,a-Trifluorotoluene (FID Surrogate)	96.4	%	70 - 130 (LCL - UCL)	Luft	01/31/06	02/02/06 10:19	CAW	GC-V4	1	BPB0281			



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

**BCL Sample ID:** 0601073-01 **Client Sample Name:** 01106, MW-1, 1/31/2006 4:58:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC	MB Bias	Lab Quals
											Instru-		
Total Alkalinity as CaCO <sub>3</sub>	39	mg/L	2.5		EPA-310.1	02/06/06	02/06/06 15:30	MAR	BDB	1	BPB0606	1.4	
Nitrate as N	8.6	mg/L	0.10		EPA-300.0	02/01/06	02/01/06 14:39	NTN	IC1	1	BPB0045	ND	
Sulfate	11	mg/L	1.0		EPA-300.0	02/01/06	02/01/06 14:39	NTN	IC1	1	BPB0045	ND	
Iron (II) Species	ND	ug/L	100		SM-3500-F <sub>t</sub>	02/01/06	02/01/06 11:00	MV1	SPEC05	1	BPB0086	ND	
Biochemical Oxygen Demand - Seeded	ND	mg O/L	1.5		SM17-52101	02/01/06	02/01/06 15:30	HPR	YSI-57	1.53	BPB0276	0.96	
Chemical Oxygen Demand	28	mg O/L	25		EPA-410.4	02/01/06	02/01/06 09:00	MV1	SPEC05	1	BPB0162	ND	



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (Metals)

BCL Sample ID:	0601073-01	Client Sample Name:	01106, MW-1, 1/31/2006	4:58:00AM, Melissa/Jaime
Constituent	Result	Units	PQL	MDL Method

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC	MB Bias	Lab Quals
Manganese	ND	ug/L	10	EPA-6010B	02/02/06	02/02/06	18:50	ARD	PE-OP1	1	BPB0108	0.55	



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 01106
Project Number: [none]
Project Manager: Anju Farfan

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0601073-02	Client Sample Name:	01106, MW-7, MW-7, 1/31/2006	5:55:00AM, Melissa/Jaime	Prep	Run	Instru-	QC	MB	Lab	Quals	
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	Batch ID	Bias		
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	02/06/06	02/07/06	14:30	MCF	MS-V10	1	BPB0376	ND
1,2-Dichloroethane-d4 (Surrogate)	97.6	%	76 - 114	(LCL - UCL)	EPA-8260	02/06/06	02/07/06	14:30	MCF	MS-V10	1	BPB0376
Toluene-d8 (Surrogate)	96.6	%	88 - 110	(LCL - UCL)	EPA-8260	02/06/06	02/07/06	14:30	MCF	MS-V10	1	BPB0376
4-Bromofluorobenzene (Surrogate)	97.5	%	86 - 115	(LCL - UCL)	EPA-8260	02/06/06	02/07/06	14:30	MCF	MS-V10	1	BPB0376



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0601073-02 Client Sample Name: 01106, MWV-7, 1/31/2006 5:55:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	Batch ID	QC	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 10:53	CAW	GC-V4	1	BPB0281	ND		
Toluene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 10:53	CAW	GC-V4	1	BPB0281	ND		
Ethylbenzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 10:53	CAW	GC-V4	1	BPB0281	ND		
Total Xylenes	ND	ug/L	0.60		EPA-8021	01/31/06	02/02/06 10:53	CAW	GC-V4	1	BPB0281	ND		
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Lift	01/31/06	02/02/06 10:53	CAW	GC-V4	1	BPB0281	ND		
a,a,a-Trifluorotoluene (PID Surrogate)	88.6	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06 10:53	CAW	GC-V4	1	BPB0281				
a,a,a-Trifluorotoluene (FID Surrogate)	95.9	%	70 - 130 (LCL - UCL)	Lift	01/31/06	02/02/06 10:53	CAW	GC-V4	1	BPB0281				



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Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

BCL Sample ID: 0601073-02 Client Sample Name: 01106, MWV-7, 1/31/2006 5:55:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrum-ent ID	Dilution	Batch ID	QC Bias	MB Bias	Lab Quals
Total Alkalinity as CaCO <sub>3</sub>	51	mg/L	2.5	EPA-310.1	02/06/06	02/06/06 15:30	MAR	BDB	1	BPB0606	1.4			
Nitrate as N	0.55	mg/L	0.10	EPA-300.0	02/01/06	02/01/06 14:58	NTN	IC1	1	BPB0045	ND			
Sulfate	60	mg/L	1.0	EPA-300.0	02/01/06	02/01/06 14:58	NTN	IC1	1	BPB0045	ND			
Iron (II) Species	1300	ug/L	100	SM-3500-F <sub>e</sub>	02/01/06	02/01/06 11:00	MV1	SPEC05	1	BPB0086	ND			
Biochemical Oxygen Demand - Seeded	ND	mg O/L	1.5	SM17-52101	02/01/06	02/01/06 15:30	HPR	YSI-57	1.53	BPB0276	0.96			
Chemical Oxygen Demand	25	mg O/L	25	EPA-410.4	02/01/06	02/01/06 09:00	MV1	SPEC05	1	BPB0162	ND			



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan  
Reported: 02/14/06 09:40

## Water Analysis (Metals)

BCL Sample ID:	0601073-02	Client Sample Name:	01106, MW-7, MW-7, 1/31/2006	5:55:00AM, Melissa/Jaime	Run	Instrument	QC	MB	Lab	Quals	
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	Batch ID	Bias	Quals
Manganese	190	ug/L	10		EPA-6010B	02/02/06	02/02/06 18:53	ARD	PE-OP1	1	BFB0108
											0.55



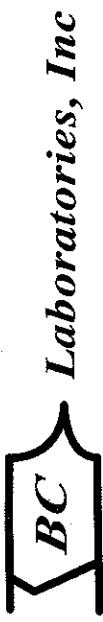
TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project:	01106
Project Number:	[none]
Project Manager:	Anju Farfan

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:		0601073-03	Client Sample Name:	01106, MW-9, MW-9, 1/31/2006	6:10:00AM, Melissa/Jaime
Constituent	Result	Units	PQL	MDL	Method
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	02/06/06 02/07/06 14:54
1,2-Dichloroethane-d4 (Surrogate)	96.2	%	76 - 114 (LCL - UCL)	EPA-8260	02/06/06 02/07/06 14:54
Toluene-d8 (Surrogate)	96.8	%	88 - 110 (LCL - UCL)	EPA-8260	02/06/06 02/07/06 14:54
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260	02/06/06 02/07/06 14:54

Prep	Run	Date/Time	Analyst	Instrument	QC	MB	Lab
				MS-V10	1	BPB0376	ND
				MS-V10	1	BPB0376	
				MS-V10	1	BPB0376	
				MS-V10	1	BPB0376	



BC Laboratories, Inc.

TRC Alton Geoscience  
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Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0601073-03 Client Sample Name: 01106, MW-9, 1/31/2006 6:10:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 11:28	CAW	GC-V4	1	BPB0281	ND	
Toluene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 11:28	CAW	GC-V4	1	BPB0281	ND	
Ethylbenzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 11:28	CAW	GC-V4	1	BPB0281	ND	
Total Xylenes	ND	ug/L	0.60		EPA-8021	01/31/06	02/02/06 11:28	CAW	GC-V4	1	BPB0281	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Lift	01/31/06	02/02/06 11:28	CAW	GC-V4	1	BPB0281	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	90.1	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06 11:28	CAW	GC-V4	1	BPB0281			
a,a,a-Trifluorotoluene (FID Surrogate)	97.8	%	70 - 130 (LCL - UCL)	Lift	01/31/06	02/02/06 11:28	CAW	GC-V4	1	BPB0281			



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan  
Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

BCL Sample ID:	0601073-03	Client Sample Name:	01106, MW-9, MW-9, 1/31/2006	6:10:00AM, Melissa/Jaime	Run	Instru-	QC	MB	Lab	Quals		
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	Dilution	Batch ID	Bias	
Total Alkalinity as CaCO <sub>3</sub>	68	mg/L	2.5	EPA-310.1	02/06/06	02/06/06	15:30	MAR	BDB	1	BPB0606	1.4
Nitrate as N	3.9	mg/L	0.10	EPA-300.0	02/01/06	02/01/06	15:16	NTN	IC1	1	BPB0045	ND
Sulfate	25	mg/L	1.0	EPA-300.0	02/01/06	02/01/06	15:16	NTN	IC1	1	BPB0045	ND
Iron (II) Species	ND	ug/L	100	SM-3500-Fc	02/01/06	02/01/06	11:00	MV1	SPEC05	1	BPB0086	ND
Biochemical Oxygen Demand - Seeded	ND	mg O/L	1.5	SM17-5210	02/01/06	02/01/06	15:30	HPR	YSI-57	1.53	BPB0276	0.96
Chemical Oxygen Demand	25	mg O/L	25	EPA-410.4	02/01/06	02/01/06	09:00	MV1	SPEC05	1	BPB0162	ND



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan  
Reported: 02/14/06 09:40

## Water Analysis (Metals)

BCL Sample ID:	0601073-03	Client Sample Name:	01106, MW-9, 1/31/2006	6:10:00AM, Melissa/Jaime	Run	Instru-	QC	MB	Lab	Quals			
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Manganese	10	ug/L	10	EPA-6010B	02/02/06	02/02/06	19:11	ARD	PE-OP1	1	BPB0108	0.55	



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Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601073-04 Client Sample Name: 01106, MW-8, 1/31/2006 6:30:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrum-ent ID	Dilution	QC	MB	Lab Quals
Methyl t-butyl ether	6.2	ug/L	0.50		EPA-8260	02/06/06	02/07/06 15:18	MCF	MS-V10	1	BPB0376	ND	
1,2-Dichloroethane-d4 (Surrogate)	98.5	%	76 - 114	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 15:18	MCF	MS-V10	1	BPB0376		
Toluene-d8 (Surrogate)	100	%	88 - 110	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 15:18	MCF	MS-V10	1	BPB0376		
4-Bromofluorobenzene (Surrogate)	96.8	%	86 - 115	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 15:18	MCF	MS-V10	1	BPB0376		



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0601073-04 Client Sample Name: 01106, MW-8, MW-8, 1/31/2006 6:30:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Date	Prep	Run	Date/Time	Analyst	Instru-	QC	MB	Lab	Quals
Benzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06	12:01	CAW	GC-V4	1	BPB0281	ND		
Toluene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06	12:01	CAW	GC-V4	1	BPB0281	ND		
Ethylbenzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06	12:01	CAW	GC-V4	1	BPB0281	ND		
Total Xylenes	ND	ug/L	0.60		EPA-8021	01/31/06	02/02/06	12:01	CAW	GC-V4	1	BPB0281	ND		
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	01/31/06	02/02/06	12:01	CAW	GC-V4	1	BPB0281	ND	A53	
a,a,a-Trifluorotoluene (PID Surrogate)	89.1	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06	12:01	CAW	GC-V4	1	BPB0281				
a,a,a-Trifluorotoluene (FID Surrogate)	96.6	%	70 - 130 (LCL - UCL)	Luft	01/31/06	02/02/06	12:01	CAW	GC-V4	1	BPB0281				



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

BCL Sample ID: 0601073-04 Client Sample Name: 01106, MW-8, 1/31/2006 6:30:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO <sub>3</sub>	69	mg/L	2.5		EPA-310.1	02/06/06	02/06/06 15:30	MAR	BDB	1	BPB0606	1.4	
Nitrate as N	1.2	mg/L	0.10		EPA-300.0	02/01/06	02/01/06 15:35	NTN	IC1	1	BPB0045	ND	
Sulfate	17	mg/L	1.0		EPA-300.0	02/01/06	02/01/06 15:35	NTN	IC1	1	BPB0045	ND	
Iron (II) Species	ND	ug/L	100		SM-3500-Ft	02/01/06	02/01/06 11:00	MV1	SPEC05	1	BPB0086	ND	
Biochemical Oxygen Demand - Seeded	ND	mg O/L	1.5		SM17-52101	02/01/06	02/01/06 15:30	HPR	YSI-57	1.53	BPB0276	0.96	
Chemical Oxygen Demand	25	mg O/L	25		EPA-410.4	02/01/06	02/01/06 09:00	MV1	SPEC05	1	BPB0162	ND	



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Fartan

Reported: 02/14/06 09:40

## Water Analysis (Metals)

BCL Sample ID:	0601073-04	Client Sample Name:	01106, MW-8, MW-8, 1/31/2006	Prep	Run	Instr-	QC	MB	Lab		
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	Batch ID	Bias	Quals
Manganese	ND	ug/L	10	EPA-6010B	02/02/06	02/02/06	19:14	ARD	PE-OP1	1	BPB0108



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Project: 01106  
Project Number: [None]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601073-05 Client Sample Name: 01106, MWV-4, 1/31/2006 7:17:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	02/06/06	02/07/06 15:42	MCF	MS-V10	1	BPB0376	ND		
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	76 - 114	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 15:42	MCF	MS-V10	1	BPB0376		
Toluene-d8 (Surrogate)	101	%	88 - 110	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 15:42	MCF	MS-V10	1	BPB0376		
4-Bromofluorobenzene (Surrogate)	96.9	%	86 - 115	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 15:42	MCF	MS-V10	1	BPB0376		



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## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0601073-05 Client Sample Name: 01106, MW-4, 1/31/2006 7:17:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 12:36	CAW	GC-V4	1	BPB0281	ND	
Toluene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 12:36	CAW	GC-V4	1	BPB0281	ND	
Ethylbenzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 12:36	CAW	GC-V4	1	BPB0281	ND	
Total Xylenes	ND	ug/L	0.60		EPA-8021	01/31/06	02/02/06 12:36	CAW	GC-V4	1	BPB0281	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	01/31/06	02/02/06 12:36	CAW	GC-V4	1	BPB0281	ND	
a,a-Trifluorotoluene (PID Surrogate)	88.4	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06 12:36	CAW	GC-V4	1	BPB0281			
a,a-Trifluorotoluene (FID Surrogate)	96.4	%	70 - 130 (LCL - UCL)	Luft	01/31/06	02/02/06 12:36	CAW	GC-V4	1	BPB0281			



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Project: 01106  
Project Number: [none]  
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Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

BCL Sample ID: 0601073-05 Client Sample Name: 01106, MW-4, MW-4, 1/31/2006 7:17:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO <sub>3</sub>	35	mg/L	2.5		EPA-310.1	02/06/06	02/06/06 15:30	MAR	BDB	1	BPB0606	1.4	
Nitrate as N	18	mg/L	0.10		EPA-300.0	02/01/06	02/01/06 15:54	NTN	IC1	1	BPB0045	ND	
Sulfate	5.4	mg/L	1.0		EPA-300.0	02/01/06	02/01/06 15:54	NTN	IC1	1	BPB0045	ND	
Iron (II) Species	ND	ug/L	100		SM-3500-F <sub>4</sub>	02/01/06	02/01/06 11:00	MV1	SPEC05	1	BPB0086	ND	
Biochemical Oxygen Demand - Seeded	ND	mg O <sub>2</sub> /L	1.5		SM17-52101	02/01/06	02/01/06 15:30	HPR	YSI-57	1.53	BPB0276	0.96	
Chemical Oxygen Demand	25	mg O <sub>2</sub> /L	25		EPA-410.4	02/01/06	02/01/06 09:00	MV1	SPEC05	1	BPB0162	ND	



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Reported: 02/14/06 09:40

## Water Analysis (Metals)

BCL Sample ID:	0601073-05	Client Sample Name:	01106, MWV-4, MWV-4, 1/31/2006	7:17:00AM, Melissa/Jaime	Run	Prep	Date	Analyst	Instru-	QC	MB	Lab	Quals
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Manganese	ND	ug/L	10	EPA-6010B	02/02/06	02/02/06	19:18	ARD	PE-OP1	1	BPB0108	0.55	



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0601073-06	Client Sample Name:	01106, MW-3, MW-3, 1/31/2006	7:05:00AM, Melissa/Jaime
Constituent	Result	Units	PQL	MDL

Constituent	Result	Units	PQL	MDL	Method	Date	Prep Run	Date/Time	Analyst	Instru-	QC	MB	Lab	Quals
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	02/06/06	02/07/06	16:06	MCF	MS-V10	1	BPB0376	ND		
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	76 - 114 (LCL - UCL)	EPA-8260	02/06/06	02/07/06	16:06	MCF	MS-V10	1	BPB0376			
Toluene-d8 (Surrogate)	98.8	%	88 - 110 (LCL - UCL)	EPA-8260	02/06/06	02/07/06	16:06	MCF	MS-V10	1	BPB0376			
4-Bromofluorobenzene (Surrogate)	99.0	%	86 - 115 (LCL - UCL)	EPA-8260	02/06/06	02/07/06	16:06	MCF	MS-V10	1	BPB0376			



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## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0601073-06 Client Sample Name: 01106, MW-3, MW-3, 1/31/2006 7:05:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	Batch ID	QC	MB	Lab Quals
Benzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 13:11	CAW	GC-V4	1	BPB0281	ND		
Toluene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 13:11	CAW	GC-V4	1	BPB0281	ND		
Ethylbenzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 13:11	CAW	GC-V4	1	BPB0281	ND		
Total Xylenes	ND	ug/L	0.60		EPA-8021	01/31/06	02/02/06 13:11	CAW	GC-V4	1	BPB0281	ND		
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Lift	01/31/06	02/02/06 13:11	CAW	GC-V4	1	BPB0281	ND		
a,a,a-Trifluorotoluene (PID Surrogate)	89.5	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06 13:11	CAW	GC-V4	1	BPB0281				
a,a,a-Trifluorotoluene (FID Surrogate)	98.4	%	70 - 130 (LCL - UCL)	Lift	01/31/06	02/02/06 13:11	CAW	GC-V4	1	BPB0281				



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Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

BCL Sample ID:		0601073-06		Client Sample Name:		01106, MW-3, MW-3, 1/31/2006		7:05:00AM, Melissa/Jaime							
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	Batch ID	QC	MB Bias	Lab Quals	
Total Alkalinity as CaCO <sub>3</sub>	19	mg/L	2.5	EPA-310.1	02/06/06	02/06/06 15:30	MAR	BDB	1	BPB0606	1.4				
Nitrate as N	15	mg/L	0.10	EPA-300.0	02/01/06	02/01/06 16:13	NTN	IC1	1	BPB0045	ND				
Sulfate	22	mg/L	1.0	EPA-300.0	02/01/06	02/01/06 16:13	NTN	IC1	1	BPB0045	ND				
Iron (II) Species	ND	ug/L	100	SM-3500-F <sub>e</sub>	02/01/06	02/01/06 11:00	MV1	SPEC05	1	BPB0086	ND				
Biochemical Oxygen Demand - Seeded	ND	mg O <sub>2</sub> /L	1.5	SM17-52101	02/01/06	02/01/06 15:30	HPR	YSI-57	1.53	BPB0276	0.96				
Chemical Oxygen Demand	25	mg O <sub>2</sub> /L	25	EPA-410.4	02/01/06	02/01/06 09:00	MV1	SPEC05	1	BPB0162	ND				



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## Water Analysis (Metals)

BCL Sample ID:	0601073-06	Client Sample Name:	01106, MW-3, MW-3, 1/31/2006	7:05:00AM, Melissa/Jaime	Run	Instru-	QC	MB	Lab			
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	Dilution	Batch ID	Bias	Quals
Manganese	29	ug/L	10		EPA-6010B	02/02/06	02/02/06 19:22	ARD	PE-OP1	1	BPB0108	0.55



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Reported: 02/14/06 09:40

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601073-07 Client Sample Name: 01106, MW-5, 1/31/2006 7:30:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrum-ent ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/06/06	02/07/06 16:29		MS-V10	1	BPB0376	ND	
1,2-Dichloroethane-d4 (Surrogate)	98.7	%	76 - 114	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 16:29		MS-V10	1	BPB0376		
Toluene-d8 (Surrogate)	100	%	88 - 110	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 16:29		MS-V10	1	BPB0376		
4-Bromofluorobenzene (Surrogate)	94.9	%	86 - 115	(LCL - UCL)	EPA-8260	02/06/06	02/07/06 16:29		MS-V10	1	BPB0376		



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## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0601073-07 Client Sample Name: 01106, MW-5, MW-5, 1/31/2006 7:30:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC	MB	Lab Quals	
											Instru-	Batch ID	Bias	Quals
Benzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 13:45	CAW	GC-V4	1	BPB0281	ND		
Toluene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 13:45	CAW	GC-V4	1	BPB0281	ND		
Ethylbenzene	ND	ug/L	0.30		EPA-8021	01/31/06	02/02/06 13:45	CAW	GC-V4	1	BPB0281	ND		
Total Xylenes	ND	ug/L	0.60		EPA-8021	01/31/06	02/02/06 13:45	CAW	GC-V4	1	BPB0281	ND		
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Lift	01/31/06	02/02/06 13:45	CAW	GC-V4	1	BPB0281	ND		
a,a,a-Trifluorotoluene (FID Surrogate)	88.8	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06 13:45	CAW	GC-V4	1	BPB0281				
a,a,a-Trifluorotoluene (FID Surrogate)	91.8	%	70 - 130 (LCL - UCL)	Lift	01/31/06	02/02/06 13:45	CAW	GC-V4	1	BPB0281				



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Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

BCL Sample ID:		0601073-07		Client Sample Name:		01106, MW-5, MV-5, 1/31/2006		7:30:00AM, Melissa/Jaime					
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO <sub>3</sub>	27	mg/L	2.5	EPA-310.1	02/06/06 15:30	MAR	BDB	1	BPB0606	1.4			
Nitrate as N	3.7	mg/L	0.10	EPA-300.0	02/01/06 02/01/06 18:36	NTN	IC1	1	BPB0045	ND			
Sulfate	12	mg/L	1.0	EPA-300.0	02/01/06 02/01/06 18:36	NTN	IC1	1	BPB0045	ND			
Iron (II) Species	ND	ug/L	100	SM-3500-F <sub>4</sub>	02/01/06 02/01/06 11:00	MV1	SPEC05	1	BPB0086	ND			
Biochemical Oxygen Demand - Seeded	ND	mg O/L	1.5	SM17-52101	02/01/06 02/01/06 15:30	HPR	YSI-57	1.53	BPB0276	0.96			
Chemical Oxygen Demand	55	mg O/L	25	EPA-410.4	02/01/06 02/01/06 09:00	MV1	SPEC05	1	BPB0162	ND			



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## Water Analysis (Metals)

**BCL Sample ID:** 0601073-07 **Client Sample Name:** 01106, MW-5, 1/31/2006 7:30:00AM, Melissa/Jaime

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC	MB	Lab Quals
Manganese	ND	ug/L	10		EPA-6010B	02/02/06	02/02/06 19:26	ARD	PE-OP1	1	BPB0108	0.55	



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:		0601073-08		Client Sample Name:		01106, MW-2, MV-2, 1/31/2006		6:50:00AM, Melissa/Jaime			
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	QC	MB
										Batch ID	Bias
Methyl t-butyl ether	0.53	ug/L	0.50		EPA-8260	02/06/06	02/07/06 16:53	MCF	MS-V10	1	BPB0376
1,2-Dichloroethane-d4 (Surrogate)	99.1	%	76-114 (LCL - UCL)	EPA-8260	02/06/06	02/07/06 16:53	MCF	MS-V10	1	BPB0376	
Toluene-d8 (Surrogate)	97.9	%	88-110 (LCL - UCL)	EPA-8260	02/06/06	02/07/06 16:53	MCF	MS-V10	1	BPB0376	
4-Bromofluorobenzene (Surrogate)	94.7	%	86-115 (LCL - UCL)	EPA-8260	02/06/06	02/07/06 16:53	MCF	MS-V10	1	BPB0376	



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Project Manager: Anju Farfan

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## Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0601073-08	Client Sample Name:	01106, MW-2, MW-2, 1/31/2006	6:50:00AM, Melissa/Jaime	Prep	Run	Instru-	QC	MB	Lab		
Constituent	Result	Units	PQL	MDL	Method	Date	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Benzene	ND	ug/L	0.30	EPA-8021	01/31/06	02/02/06 14:20	CAW	GC-V4	1	BPB0281	ND	
Toluene	ND	ug/L	0.30	EPA-8021	01/31/06	02/02/06 14:20	CAW	GC-V4	1	BPB0281	ND	
Ethylbenzene	ND	ug/L	0.30	EPA-8021	01/31/06	02/02/06 14:20	CAW	GC-V4	1	BPB0281	ND	
Total Xylenes	ND	ug/L	0.60	EPA-8021	01/31/06	02/02/06 14:20	CAW	GC-V4	1	BPB0281	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	01/31/06	02/02/06 14:20	CAW	GC-V4	1	BPB0281	ND	
a,a,-Trifluorotoluene (PID Surrogate)	89.6	%	70 - 130 (LCL - UCL)	EPA-8021	01/31/06	02/02/06 14:20	CAW	GC-V4	1	BPB0281		
a,a,a-Trifluorotoluene (FID Surrogate)	94.6	%	70 - 130 (LCL - UCL)	Luft	01/31/06	02/02/06 14:20	CAW	GC-V4	1	BPB0281		



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Project Number: [none]  
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Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

BCL Sample ID:	0601073-08	Client Sample Name:	01106, MW-2, MW-2, 1/31/2006	6:50:00AM, Melissa/Jaime	Prep Run	Date/Time	Analyst	Instrum-	QC	MB	Lab	Quals
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	ment ID	Dilution	Batch ID	Bias	Quals
Total Alkalinity as CaCO <sub>3</sub>	39	mg/L	2.5	EPA-310.1	02/08/06	02/08/06	13:10	MAR	BDB	1	BPB0612	1.4
Nitrate as N	4.9	mg/L	0.10	EPA-300.0	02/01/06	02/01/06	20:02	NTN	IC1	1	BPB0046	ND
Sulfate	15	mg/L	1.0	EPA-300.0	02/01/06	02/01/06	20:02	NTN	IC1	1	BPB0046	ND
Iron (II) Species	ND	ug/L	100	SM-3500-F <sub>e</sub>	02/01/06	02/01/06	11:00	MV1	SPEC05	1	BPB0086	ND
Biochemical Oxygen Demand - Seeded	ND	mg O/L	1.5	SM17-52101	02/01/06	02/01/06	15:30	HPR	YSI-57	1.53	BPB0276	0.96
Chemical Oxygen Demand	28	mg O/L	25	EPA-410.4	02/01/06	02/01/06	09:00	MV1	SPEC05	1	BPB0162	ND



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (Metals)

BCL Sample ID:		0601073-08	Client Sample Name:		01106, MW-2, 1/31/2006		6:50:00AM, Melissa/Jaime		Run	Instru-	QC	MB	Lab
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Manganese	23	ug/L	10	EPA-6010B	02/02/06	02/02/06	19:29	ARD	PE-OP1	1	BPB0108	0.55	



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	Percent RPD	Recovery Lab Quals
1,2-Dichloroethane-d4 (Surrogate)	BPPB0376	BPPB0376-MS1	Matrix Spike	ND	10.060	10.000	ug/L	101	76 - 114	76 - 114	
		BPPB0376-MSD1	Matrix Spike Duplicate	ND	10.250	10.000	ug/L	102			
Toluene-d8 (Surrogate)	BPPB0376	BPPB0376-MS1	Matrix Spike	ND	9.9900	10.000	ug/L	99.9	88 - 110	88 - 110	
		BPPB0376-MSD1	Matrix Spike Duplicate	ND	10.010	10.000	ug/L	100			
4-Bromofluorobenzene (Surrogate)	BPPB0376	BPPB0376-MS1	Matrix Spike	ND	10.070	10.000	ug/L	101	86 - 115	86 - 115	
		BPPB0376-MSD1	Matrix Spike Duplicate	ND	10.050	10.000	ug/L	100			



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Purgeable Aromatics and Total Petroleum Hydrocarbons

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	Percent RPD	Recovery Lab Quals
Benzene	BPB0281	BPB0281-MS1	Matrix Spike	ND	42.393	40.000	ug/L	106	70 - 130		
		BPB0281-MSD1	Matrix Spike Duplicate	ND	43.383	40.000	ug/L	1.87	108	20	70 - 130
Toluene	BPB0281	BPB0281-MS1	Matrix Spike	ND	41.985	40.000	ug/L	105	70 - 130		
		BPB0281-MSD1	Matrix Spike Duplicate	ND	42.508	40.000	ug/L	0.948	106	20	70 - 130
Ethylbenzene	BPB0281	BPB0281-MS1	Matrix Spike	ND	43.233	40.000	ug/L	108	70 - 130		
		BPB0281-MSD1	Matrix Spike Duplicate	ND	43.100	40.000	ug/L	0.00	108	20	70 - 130
Total Xylenes	BPB0281	BPB0281-MS1	Matrix Spike	ND	130.55	120.00	ug/L	109	70 - 130		
		BPB0281-MSD1	Matrix Spike Duplicate	ND	125.73	120.00	ug/L	3.74	105	20	70 - 130
Gasoline Range Organics (C4 - C12)	BPB0281	BPB0281-MS1	Matrix Spike	ND	871.32	1000.0	ug/L	87.1	70 - 130		
		BPB0281-MSD1	Matrix Spike Duplicate	ND	904.09	1000.0	ug/L	3.72	90.4	20	70 - 130
a,a,a-Trifluorotoluene (PID Surrogate)	BPB0281	BPB0281-MS1	Matrix Spike	ND	40.519	40.000	ug/L	101	70 - 130		
		BPB0281-MSD1	Matrix Spike Duplicate	ND	40.548	40.000	ug/L	101	70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	BPB0281	BPB0281-MS1	Matrix Spike	ND	37.923	40.000	ug/L	94.8	70 - 130		
		BPB0281-MSD1	Matrix Spike Duplicate	ND	39.008	40.000	ug/L	97.5	70 - 130		



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

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## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										Percent Recovery	Percent Recovery Lab Quals
Nitrate as N	BPB0045	BPB0045-DUP1	Duplicate	3.7200	3.7240		mg/L	0.107	10	80 - 120	80 - 120
	BPB0045-MS1	Matrix Spike	Matrix Spike Duplicate	3.7200	8.7131	5.0505	mg/L	0.303	98.9		
	BPB0045-MSD1	Matrix Spike	Duplicate	3.7200	8.7283	5.0505	mg/L	0.303	99.2		
Sulfate	BPB0045	BPB0045-DUP1	Duplicate	11.735	11.628		mg/L	0.916	10	80 - 120	80 - 120
	BPB0045-MS1	Matrix Spike	Matrix Spike Duplicate	11.735	115.29	101.01	mg/L	0.976	103		
	BPB0045-MSD1	Matrix Spike	Duplicate	11.735	115.14	101.01	mg/L	0.976	102		
Nitrate as N	BPB0046	BPB0046-DUP1	Duplicate	4.9070	4.9250		mg/L	0.366	10	80 - 120	80 - 120
	BPB0046-MS1	Matrix Spike	Matrix Spike Duplicate	4.9070	9.8586	5.0505	mg/L	0.204	98.0		
	BPB0046-MSD1	Matrix Spike	Duplicate	4.9070	9.8646	5.0505	mg/L	0.204	98.2		
Sulfate	BPB0046	BPB0046-DUP1	Duplicate	15.212	15.141		mg/L	0.468	10	80 - 120	80 - 120
	BPB0046-MS1	Matrix Spike	Matrix Spike Duplicate	15.212	118.50	101.01	mg/L	0.0	102		
	BPB0046-MSD1	Matrix Spike	Duplicate	15.212	118.72	101.01	mg/L	0.0	102		
Iron (II) Species	BPB0086	BPB0086-DUP1	Duplicate	ND	ND		ug/L	0.0	10	80 - 120	80 - 120
	BPB0162	BPB0162-DUP1	Duplicate	223.84	223.84		mg O/L	0.0	20		
	BPB0162-MS1	Matrix Spike	Matrix Spike Duplicate	223.84	963.82	750.00	mg O/L	0.304	98.7		
Biochemical Oxygen Demand - Seeded	BPB0276	BPB0276-DUP1	Duplicate	104.92	95.567		mg O/L	9.33	20	80 - 120	80 - 120
	BPB0606	BPB0606-DUP1	Duplicate	361.28	363.20		mg/L	0.530	10		
	BPB0606-MS1	Matrix Spike	Matrix Spike Duplicate	361.28	614.20	250.00	mg/L	1.01	80 - 120		
Total Alkalinity as CaCO <sub>3</sub>	BPB0606-MSD1	Matrix Spike	Duplicate	361.28	612.28	250.00	mg/L	0.995	100	80 - 120	80 - 120
	BPB0612	BPB0612-DUP1	Duplicate	200.62	200.62		mg/L	0.0	10		
	BPB0612-MS1	Matrix Spike	Matrix Spike Duplicate	200.62	326.12	125.00	mg/L	1.98	100		
Total Alkalinity as CaCO <sub>3</sub>	BPB0612-MSD1	Matrix Spike	Duplicate	200.62	328.02	125.00	mg/L	1.98	102		



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Project Number: [none]  
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## Water Analysis (Metals)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	Control Limits		
								Percent Recovery	Percent RPD	Percent Recovery Lab Quals
Manganese	BPB0108	BPB0108-DUP1	Duplicate	ND	ND		ug/L		20	
		BPB0108-MS1	Matrix Spike	ND	218.28	204.08	ug/L		75 - 125	
		BPB0108-MSD1	Matrix Spike Duplicate	ND	219.12	204.08	ug/L	0.00	107	20
									75 - 125	



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	Control Limits		
									Percent	RPD	Recovery
1,2-Dichloroethane-d4 (Surrogate)	BPB0376	BPB0376-BS1	LCS	10.040	10.000	ug/L	100		76 - 114		
Toluene-d8 (Surrogate)	BPB0376	BPB0376-BS1	LCS	9.8300	10.000	ug/L	98.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPB0376	BPB0376-BS1	LCS	10.160	10.000	ug/L	102		86 - 115		



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Purgeable Aromatics and Total Petroleum Hydrocarbons Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits	
										Percent Recovery	RPD
Benzene	BPB0281	BPB0281-BS1	LCS	42.090	40.000	0.30	ug/L	105	85 - 115		
Toluene	BPB0281	BPB0281-BS1	LCS	41.189	40.000	0.30	ug/L	103	85 - 115		
Ethylbenzene	BPB0281	BPB0281-BS1	LCS	41.784	40.000	0.30	ug/L	104	85 - 115		
Total Xylenes	BPB0281	BPB0281-BS1	LCS	121.86	120.00	0.60	ug/L	102	85 - 115		
Gasoline Range Organics (C4 - C12)	BPB0281	BPB0281-BS1	LCS	863.96	1000.0	50	ug/L	86.4	85 - 115		
a,a,a-Trifluorotoluene (PID Surrogate)	BPB0281	BPB0281-BS1	LCS	40.040	40.000		ug/L	100	70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	BPB0281	BPB0281-BS1	LCS	39.488	40.000		ug/L	98.7	70 - 130		



**BC** Laboratories, Inc

TRC Alton Geoscience  
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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	Control Limits		
									Percent Recovery	RPD	Lab Quals
Nitrate as N	BPPB0045	BPPB0045-BS1	LCS	4.8950	5.0000	0.10	mg/L	97.9	90 - 110		
Sulfate	BPPB0045	BPPB0045-BS1	LCS	101.36	100.00	1.0	mg/L	101	90 - 110		
Nitrate as N	BPPB0046	BPPB0046-BS1	LCS	4.9260	5.0000	0.10	mg/L	98.5	90 - 110		
Sulfate	BPPB0046	BPPB0046-BS1	LCS	101.41	100.00	1.0	mg/L	101	90 - 110		
Iron (II) Species	BPPB0086	BPPB0086-BS1	LCS	1979.8	2000.0	100	ug/L	99.0	90 - 110		
Chemical Oxygen Demand	BPPB0162	BPPB0162-BS1	LCS	742.97	750.00	25	mg O/L	99.1	85 - 115		
Biochemical Oxygen Demand - Seeded	BPPB0276	BPPB0276-BS1	LCS	179.34	198.00	31	mg O/L	90.6	85 - 115		
Total Alkalinity as CaCO <sub>3</sub>	BPPB0606	BPPB0606-BS1	LCS	101.73	100.00	2.5	mg/L	102	90 - 110		
Total Alkalinity as CaCO <sub>3</sub>	BPPB0612	BPPB0612-BS1	LCS	103.16	100.00	2.5	mg/L	103	90 - 110		



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (Metals)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Control Limits			
								Percent Recovery	RPD Recovery	RPD	Lab Quals
Manganese	BPPB0108	BPPB0108-BS1	LCS	204.84	200.00	10	ug/L	102	85 - 115		



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Methyl t-butyl ether	BPB0376	BPB0376-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichlorethane-d4 (Surrogate)	BPB0376	BPB0376-BLK1	97.8	%	76 - 114	(LCL - UCL)	
Toluene-d8 (Surrogate)	BPB0376	BPB0376-BLK1	101	%	88 - 110	(LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BPB0376	BPB0376-BLK1	99.5	%	86 - 115	(LCL - UCL)	



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Purgeable Aromatics and Total Petroleum Hydrocarbons Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BPB0281	BPB0281-BLK1	ND	ug/L	0.30	0.13	
Toluene	BPB0281	BPB0281-BLK1	ND	ug/L	0.30	0.15	
Ethylbenzene	BPB0281	BPB0281-BLK1	ND	ug/L	0.30	0.13	
Total Xylenes	BPB0281	BPB0281-BLK1	ND	ug/L	0.60	0.51	
Gasoline Range Organics (C4 - C12)	BPB0281	BPB0281-BLK1	ND	ug/L	50	14	
a,a,a-Trifluorotoluene (FID Surrogate)	BPB0281	BPB0281-BLK1	90.4	%	70 - 130 (LCL - UCL)		
a,a,a-Trifluorotoluene (FID Surrogate)	BPB0281	BPB0281-BLK1	94.8	%	70 - 130 (LCL - UCL)		



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Nitrate as N	BPB0045	BPB0045-BLK1	ND	mg/L	0.10	0.012	
Sulfate	BPB0045	BPB0045-BLK1	ND	mg/L	1.0	0.12	
Nitrate as N	BPB0046	BPB0046-BLK1	ND	mg/L	0.10	0.012	
Sulfate	BPB0046	BPB0046-BLK1	ND	mg/L	1.0	0.12	
Iron (II) Species	BPB0086	BPB0086-BLK1	ND	ug/L	100	100	
Chemical Oxygen Demand	BPB0162	BPB0162-BLK1	ND	mg O/L	25	3.5	
Biochemical Oxygen Demand - Seeded	BPB0276	BPB0276-BLK1	ND	mg O/L	1.0	1.0	
Total Alkalinity as CaCO <sub>3</sub>	BPB0606	BPB0606-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO <sub>3</sub>	BPB0612	BPB0612-BLK1	ND	mg/L	2.5	2.5	



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Project: 01106  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 02/14/06 09:40

## Water Analysis (Metals)

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Manganese	BPB0108	BPB0108-BLK1	ND	ug/L	10	5.3	



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Project: 01106  
Project Number: [none]  
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Reported: 02/14/06 09:40

#### Notes and Definitions

J	Estimated value
A53	Chromatogram not typical of gasoline.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



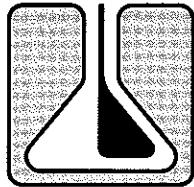
February 3, 2006

TRC  
21 Technology Drive  
Irvine, CA 92618

Site: 01106

Sample ID: 0601073-01 – MW-1  
0601073-02 – MW-7  
0601073-03 – MW-9  
0601073-04 – MW-8  
0601073-05 – MW-4  
0601073-06 – MW-3  
0601073-07 – MW-5  
0601073-08 – MW-2

Attached are the results for Carbon Dioxide analyzed by Zalco Labs.



# ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue  
Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

Friday, February 03, 2006

Vanessa Hooker  
BC Laboratories Inc  
4100 Atlas Court  
Bakersfield, CA 93308  
  
TEL: (661) 327-4911  
FAX (661) 327-1918

RE: 0601073

Order No.: 0602019

Dear Vanessa Hooker:

Zalco Laboratories, Inc. received 8 sample(s) on 2/2/2006 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

A handwritten signature in black ink, appearing to read "Karen S. V.", is written over a large, stylized, overlapping 'X' mark.

Zalco Laboratories, Inc.



**ZALCO LABORATORIES, INC.**  
Analytical and Consulting Services  
4309 Armour Avenue  
Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

<b>CLIENT:</b>	BC Laboratories Inc	<b>Report Date:</b>	2/3/2006
<b>Lab Order:</b>	0602019	<b>DateReceived:</b>	2/2/2006 9:00:00 AM
<b>Project:</b>	0601073	<b>Lab ID:</b>	0602019-001A
<b>Client Sample ID:</b>	0601073-01	<b>Collection Date:</b>	1/31/2006 4:58:00 PM
<b>Report Comment:</b>		<b>Matrix:</b>	WATER

Analyses	Method	Result	Units	DLR	Date Analyzed	Qual.
<b>CARBON DIOXIDE</b>						
Carbon Dioxide	SM4500-CO2	19	mg/L	0.40	2/3/2006	H

**Qualifiers / Abbreviations:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



**ZALCO LABORATORIES, INC.**  
Analytical and Consulting Services  
4309 Armour Avenue  
Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

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**CLIENT:** BC Laboratories Inc      **Report Date:** 2/3/2006  
**Lab Order:** 0602019      **DateReceived:** 2/2/2006 9:00:00 AM  
**Project:** 0601073      **Lab ID:** 0602019-002A  
**Client Sample ID:** 0601073-02      **Collection Date:** 1/31/2006 5:55:00 PM  
**Report Comment:**      **Matrix:** WATER

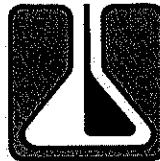
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<b>Analyses</b>	<b>Method</b>	<b>Result</b>	<b>Units</b>	<b>DLR</b>	<b>Date Analyzed</b>	<b>Qual.</b>
<b>CARBON DIOXIDE</b> Carbon Dioxide	SM4500-CO2	80	mg/L	0.40	2/3/2006	H

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**Qualifiers / Abbreviations:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



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Analytical and Consulting Services  
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Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

---

**CLIENT:** BC Laboratories Inc      **Report Date:** 2/3/2006  
**Lab Order:** 0602019      **DateReceived:** 2/2/2006 9:00:00 AM  
**Project:** 0601073      **Lab ID:** 0602019-003A  
**Client Sample ID:** 0601073-03      **Collection Date:** 1/31/2006 6:10:00 PM  
**Report Comment:**      **Matrix:** WATER

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Analyses	Method	Result	Units	DLR	Date Analyzed	Qual.
<b>CARBON DIOXIDE</b>						
Carbon Dioxide	SM4500-CO2	54	mg/L	0.40	2/3/2006	H

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**Qualifiers / Abbreviations:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



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(661) 395-0539  
FAX (661) 395-3069

<b>CLIENT:</b>	BC Laboratories Inc	<b>Report Date:</b>	2/3/2006
<b>Lab Order:</b>	0602019	<b>DateReceived:</b>	2/2/2006 9:00:00 AM
<b>Project:</b>	0601073	<b>Lab ID:</b>	0602019-004A
<b>Client Sample ID:</b>	0601073-04	<b>Collection Date:</b>	1/31/2006 6:30:00 AM
<b>Report Comment:</b>		<b>Matrix:</b>	WATER

Analyses	Method	Result	Units	DLR	Date Analyzed	Qual.
<b>CARBON DIOXIDE</b>						
Carbon Dioxide	SM4500-CO2	52	mg/L	0.40	2/3/2006	H

**Qualifiers / Abbreviations:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



**ZALCO LABORATORIES, INC.**  
Analytical and Consulting Services  
4309 Armour Avenue  
Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

<b>CLIENT:</b>	BC Laboratories Inc	<b>Report Date:</b>	2/3/2006
<b>Lab Order:</b>	0602019	<b>DateReceived:</b>	2/2/2006 9:00:00 AM
<b>Project:</b>	0601073	<b>Lab ID:</b>	0602019-005A
<b>Client Sample ID:</b>	0601073-05	<b>Collection Date:</b>	1/31/2006 7:17:00 PM
<b>Report Comment:</b>		<b>Matrix:</b>	WATER

<b>Analyses</b>	<b>Method</b>	<b>Result</b>	<b>Units</b>	<b>DLR</b>	<b>Date Analyzed</b>	<b>Qual.</b>
<b>CARBON DIOXIDE</b>						
Carbon Dioxide	SM4500-CO2	64	mg/L	0.40	2/3/2006	H

**Qualifiers / Abbreviations:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



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<b>CLIENT:</b>	BC Laboratories Inc	<b>Report Date:</b>	2/3/2006
<b>Lab Order:</b>	0602019	<b>DateReceived:</b>	2/2/2006 9:00:00 AM
<b>Project:</b>	0601073	<b>Lab ID:</b>	0602019-006A
<b>Client Sample ID:</b>	0601073-06	<b>Collection Date:</b>	1/31/2006 7:05:00 PM
<b>Report Comment:</b>		<b>Matrix:</b>	WATER

Analyses	Method	Result	Units	DLR	Date Analyzed	Qual.
<b>CARBON DIOXIDE</b>						
Carbon Dioxide	SM4500-CO2	65	mg/L	0.40	2/3/2006	H

**Qualifiers / Abbreviations:**  
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B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



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Analytical and Consulting Services  
4309 Armour Avenue  
Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

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**CLIENT:** BC Laboratories Inc      **Report Date:** 2/3/2006  
**Lab Order:** 0602019      **DateReceived:** 2/2/2006 9:00:00 AM  
**Project:** 0601073      **Lab ID:** 0602019-007A  
**Client Sample ID:** 0601073-07      **Collection Date:** 1/31/2006 7:30:00 PM  
**Report Comment:**      **Matrix:** WATER

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<b>Analyses</b>	<b>Method</b>	<b>Result</b>	<b>Units</b>	<b>DLR</b>	<b>Date Analyzed</b>	<b>Qual.</b>
<b>CARBON DIOXIDE</b>						
Carbon Dioxide	SM4500-CO2	17	mg/L	0.40	2/3/2006	H

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**Qualifiers / Abbreviations:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



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Analytical and Consulting Services  
4309 Armour Avenue  
Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

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**CLIENT:** BC Laboratories Inc      **Report Date:** 2/3/2006  
**Lab Order:** 0602019      **DateReceived:** 2/2/2006 9:00:00 AM  
**Project:** 0601073      **Lab ID:** 0602019-008A  
**Client Sample ID:** 0601073-08      **Collection Date:** 1/31/2006 6:50:00 PM  
**Report Comment:**      **Matrix:** WATER

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<b>Analyses</b>	<b>Method</b>	<b>Result</b>	<b>Units</b>	<b>DLR</b>	<b>Date Analyzed</b>	<b>Qual.</b>
<b>CARBON DIOXIDE</b>						
Carbon Dioxide	SM4500-CO2	16	mg/L	0.40	2/3/2006	H

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**Qualifiers / Abbreviations:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level  
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
DLR: Detection Limit for Reporting  
NSS - Non-Sufficient Sample Amount



February 13, 2006

TRC  
21 Technology Drive  
Irvine, CA 92618

Site: 01106

Sample ID: 0601073-01 – MW-1  
0601073-02 – MW-7  
0601073-03 – MW-9  
0601073-04 – MW-8  
0601073-05 – MW-4  
0601073-06 – MW-3  
0601073-07 – MW-5  
0601073-08 – MW-2

Attached are the results for Methane analyzed by Inland Empire Analytical.

**Inland Empire Analytical**  
2051 Pacific Avenue, Norco, CA 92860  
Ph (951) 371-5048 gpouellette@earthlink.net

2/9/2006

Vanessa Hooker  
BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

Client Project: 06-01073  
Samples Collected 1-31-2006  
Samples Analyzed 2-08-2006  
Inland Empire Analytical# WO 765

Vanessa,

Enclosed as table 1 are the results of the methane in ground water analyses for the eight samples received from project 06-01073 sampled on January 31, 2006.

The samples were received on February 2, 2006 on ice and in good condition. Samples for dissolved gas analysis were kept at 4 degrees C until analyzed by EPA RSK SOP-175 on February 8, 2006. Holding time for this test is 14 days.

This completes all requests for analyses associated with this set of samples.

Gregory P. Ouellette

Reviewed and approved  
Gregory P. Ouellette

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

**Inland Empire Analytical**

Client: BC Laboratories

Client Project #: 06-01073

Sample date: January 31, 2006

Analysis Date: February 8, 2006

**Dissolved Methane by RSKSOP-175M**

BC Lab #	IEA #	Well #	Methane mg/L
06-01073-01	765-1	MW-1	<0.001
06-01073-02	765-2	MW-7	<0.001
06-01073-03	765-3	MW-9	<0.001
06-01073-04	765-4	MW-8	<0.001
06-01073-05	765-5	MW-4	<0.001
06-01073-06	765-6	MW-3	<0.001
06-01073-07	765-7	MW-5	<0.001
06-01073-08	765-8	MW-2	<0.001

**GC QA/QC Data**

	Methane ppm
Mix M1K---Actual	1005
Mix M1K---Observed	1048
Percent of actual	104.3

**Method QA/QC Data**

CH4 spike in Distilled H2O	Methane mg/L
Actual	0.057
Observed	0.055
Percent of actual	96.5
Actual	0.057
Observed	0.053
Percent of actual	93.0

Table 1

**SUBCONTRACT ORDER**

BC Laboratories

**0601073****SENDING LABORATORY:**

BC Laboratories  
4100 Atlas Ct  
Bakersfield, CA 93308  
Phone: 661-327-4911  
Fax: 661-327-1918  
Project Manager: Vanessa Hooker

**RECEIVING LABORATORY:**

Inland Empire Labs \$INLN  
2051 Pacific Ave.  
Norco, CA 92860  
Phone :(951) 371-5048  
Fax: (951) 371-7902

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 0601073-01-G	Water	Sampled:01/31/06 04:58	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 04:58		sample ID MW-1
Containers Supplied:	<i>4 oz. Amber</i>			
Sample ID: 0601073-02	Water	Sampled:01/31/06 05:55	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 05:55		sample ID MW-7
Containers Supplied:				
Sample ID: 0601073-03	Water	Sampled:01/31/06 06:10	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 06:10		sample ID MW-9
Containers Supplied:				
Sample ID: 0601073-04	Water	Sampled:01/31/06 06:30	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 06:30		sample ID MW-8
Containers Supplied:				
Sample ID: 0601073-05	Water	Sampled:01/31/06 07:17	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 07:17		sample ID MW-4
Containers Supplied:				
Sample ID: 0601073-06	Water	Sampled:01/31/06 07:05	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 07:05		sample ID MW-3
Containers Supplied:				

*Cltt Ch 2/1/06 1430 thy Oalllll 2-2-06 08:45*

Released By	Date	Received By	Date
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Released By	Date	Received By	Date
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**SUBCONTRACT ORDER**

BC Laboratories

**0601073**

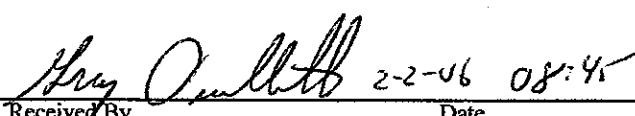
Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 0601073-07	Water	Sampled:01/31/06 07:30	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 07:30		sample ID MW-5
<i>Containers Supplied:</i>				
Sample ID: 0601073-08	Water	Sampled:01/31/06 06:50	[REDACTED]	
ogRSK175w Diss Methane INL02/15/06 17:00		02/14/06 06:50		sample ID MW-2
<i>Containers Supplied:</i>				

Released By

Date

Received By

Date

 2-2-06 08:45

Released By

Date

Received By

Date

Submission #: 060073

**Project Code:**

TB Batch #

## **SHIPPING INFORMATION**

Federal Express  UPS  Hand Delivery  
 BC Lab Field Service  Other (Specify) \_\_\_\_\_

#### **SHIPPING CONTAINER**

Ice Chest  Box

**None**   
**Other**  (Specify) \_\_\_\_\_

**Refrigerant:** Ice  Blue Ice  None  Other  **Comments:**

**Custody Seals:** Ice Chest  Containers  None  Comments: \_\_\_\_\_  
Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received

Ice Chest ID \_\_\_\_\_  
Temperature: 44 °C  
Thermometer ID: #48

Emissivity 1.00  
Container QTPF

Date/Time 2/1/06  
Analyst Init MSC 1030

### Comments:

**Sample Numbering Completed By:**

14

Date/Time: 2-1-06 1105

BC LABORATORIES INC.

## SAMPLE RECEIPT FORM

Rev. No. 10

01/21/04

Page 1 Of 1

Submission #: 06-01073 | Project Code:

TB Batch #

## SHIPPING INFORMATION

Federal Express  UPS  Hand Delivery   
 BC Lab Field Service  Other  (Specify) \_\_\_\_\_

## SHIPPING CONTAINER

Ice Chest   
 Box

None   
 Other  (Specify) \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments:

Custody Seals: Ice Chest  Containers  None  Comments:  
 Intact? Yes  No

All samples received? Yes  No All samples containers intact? Yes  No Description(s) match COC? Yes  No 

COC Received  
 YES  NO

Ice Chest ID: 12 °C  
 Thermometer ID: 1148

Emissivity 1.00  
 Container QTPF

Date/Time 8/1/04  
 Analyst Init NDC 1030

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL / GENERAL PHYSICAL					B	B	B	B		
PT PE UNPRESERVED					C	C	C	C		
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS					D	D	D	D		
PT CYANIDE										
PT NITROGEN FORMS					E	E	E	E		
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL					A 6	A 6	A 6	A 6		
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608/8080										
QT EPA 515.1/8159										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 801SM										
QT QA/QC										
QT AMBER MED/HEALTH					G	G	G	G		
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON					F	F	F	F		
ENCORE										

Comments: -6 MW3 I VOA received 13 vials

Sample Numbering Completed By

NPL

Date/Time: 2-1-06 1105

## BC LABORATORIES, INC.

4100 Atlas Court □ Bakersfield, CA 93308  
 (661) 327-4911 □ FAX (661) 327-1913

## CHAIN OF CUSTODY

06-01073

Circle one: Phillips 66 / Unocal

Address: 1693 Central Ave  
 City: McKinleyville  
 State: CA Zip: 95501

Consultant Firm: TRC  
 21 Technology Drive  
 Irvine, CA 92618-2302  
 Attn: Anju Farfan

Sample ID: mw-1  
 mw-2  
 mw-3  
 mw-4  
 mw-5  
 mw-6  
 mw-7  
 mw-8

Project #: 4050001  
 Phillips 66/Unocal Mgr: James Kossel

Lab# Sample Description  
 1 mw-1  
 2 mw-2  
 3 mw-3  
 4 mw-4  
 5 mw-5  
 6 mw-6  
 7 mw-7  
 8 mw-8

Date & Time  
 Sampled  
 013100 0458 0600  
 0555 0610  
 0630  
 0717  
 0705  
 0730  
 0650

Field Point Name  
 Melissa, Janice

Turnaround Time Requested

Ferrous Iron, BOD, COD

Alkalinity, Dissolved

CO<sub>2</sub>, Methane, Nitrate, Sulphate

TPH by 8260B

Ethanol by 8260B

BTEX/MTBExys by 8260B

8260 full list w/ MTBE & oxygenates

TPH Diesel by 8015M

TPH Gas by 8015M

BTX/TMB by 8021B, Gas by 8015

Analysis Requested

Received by:

In cooler on ice

Received by:

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

### **Limitations**

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.